

**BR CTF submission workbook**

Submission Year	2014	Party	AUSTRALIA
Submission Version	v1.0	Submission Level	Submitted
Submission Key	AUS_2014_V1.0	Submission Status	Closed
Submitted By	Natalie Ross-Lapointe	Workbook Created	08.01.2014 06:34:17
Submitted Date	08.01.2014 06:33:06		

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Table 1

AUS\_BR1\_v1.0

**Emission trends: summary** <sup>(1)</sup>  
(Sheet 1 of 3)

CRF: AUS\_CRF\_\_ v1.1

<i>GREENHOUSE GAS EMISSIONS</i>	Base year <sup>a</sup>	1991	1992	1993	1994	1995	1996	1997	1998
	<i>kt CO<sub>2</sub> eq</i>	<i>kt CO<sub>2</sub> eq</i>	kt CO <sub>2</sub> eq	kt CO <sub>2</sub> eq	kt CO <sub>2</sub> eq	kt CO <sub>2</sub> eq	kt CO <sub>2</sub> eq	kt CO <sub>2</sub> eq	kt CO <sub>2</sub> eq
CO <sub>2</sub> emissions including net CO <sub>2</sub> from LULUCF	377,445.88	423,852.84	364,497.27	301,559.02	302,782.82	323,261.43	336,834.35	335,041.42	381,344.17
CO <sub>2</sub> emissions excluding net CO <sub>2</sub> from LULUCF	277,901.91	279,323.10	284,492.57	288,496.92	293,245.05	303,863.33	311,413.09	319,727.21	332,962.59
CH <sub>4</sub> emissions including CH <sub>4</sub> from LULUCF	120,901.29	122,776.98	120,029.24	116,414.59	114,465.85	115,195.46	114,777.79	117,600.50	118,117.84
CH <sub>4</sub> emissions excluding CH <sub>4</sub> from LULUCF	116,126.74	116,189.83	115,476.56	113,317.94	110,317.01	112,186.91	111,354.81	114,510.32	114,499.21
N <sub>2</sub> O emissions including N <sub>2</sub> O from LULUCF	20,400.90	20,793.78	20,382.70	20,538.31	21,161.58	21,948.78	23,109.51	23,906.91	24,873.07
N <sub>2</sub> O emissions excluding N <sub>2</sub> O from LULUCF	18,415.97	18,550.60	18,640.21	19,256.49	19,622.01	20,635.67	21,631.88	22,576.11	23,157.24
HFCs	1,126.27	1,126.27	1,053.94	1,446.59	812.40	812.55	384.01	641.33	872.07
PFCs	3,950.13	3,953.32	3,946.93	2,842.79	1,855.82	1,312.56	1,209.29	1,053.04	1,423.75
SF <sub>6</sub>	221.20	239.99	258.77	277.53	296.28	316.89	282.66	260.46	234.09
<b>Total (including LULUCF)</b>	524,045.67	572,743.18	510,168.84	443,078.83	441,374.74	462,847.67	476,597.61	478,503.67	526,865.00
<b>Total (excluding LULUCF)</b>	417,742.21	419,383.11	423,868.97	425,638.27	426,148.56	439,127.92	446,275.74	458,768.46	473,148.96

<i>GREENHOUSE GAS SOURCE AND SINK CATEGORIES</i>	Base year <sup>a</sup>	1991	1992	1993	1994	1995	1996	1997	1998
	<i>kt CO<sub>2</sub> eq</i>	<i>kt CO<sub>2</sub> eq</i>	kt CO <sub>2</sub> eq	kt CO <sub>2</sub> eq	kt CO <sub>2</sub> eq	kt CO <sub>2</sub> eq	kt CO <sub>2</sub> eq	kt CO <sub>2</sub> eq	kt CO <sub>2</sub> eq
1. Energy	289,154.77	291,012.85	297,033.21	300,337.66	301,852.36	313,572.60	320,868.26	331,791.11	345,418.49
2. Industrial Processes	24,669.72	23,947.69	24,587.05	24,387.42	24,590.34	24,362.10	24,261.56	24,392.79	25,570.23
3. Solvent and Other Product Use	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO
4. Agriculture	86,506.66	87,046.36	85,032.98	83,796.66	83,150.45	84,643.47	85,918.00	87,527.68	87,737.80
5. Land Use, Land-Use Change and Forestry <sup>b</sup>	106,303.45	153,360.08	86,299.87	17,440.56	15,226.18	23,719.75	30,321.87	19,735.21	53,716.04
6. Waste	17,411.06	17,376.21	17,215.73	17,116.54	16,555.41	16,549.75	15,227.92	15,056.88	14,422.44
7. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total (including LULUCF)</b>	524,045.67	572,743.18	510,168.84	443,078.83	441,374.74	462,847.67	476,597.61	478,503.67	526,865.00

**Note:** All footnotes for this table are given on sheet 3.

<sup>1</sup> The common tabular format will be revised, in accordance with relevant decisions of the Conference of the Parties and, where applicable, with decisions of the Conference of the Parties serving as the meeting of the Parties to the Kyoto Protocol."

Table 1

AUS\_BR1\_v1.0

**Emission trends: summary** <sup>(1)</sup>  
**(Sheet 2 of 3)**

CRF: AUS\_CRF\_\_ v1.1

<i>GREENHOUSE GAS EMISSIONS</i>	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
	<i>kt CO<sub>2</sub> eq</i>	<i>kt CO<sub>2</sub> eq</i>	<i>kt CO<sub>2</sub> eq</i>	<i>kt CO<sub>2</sub> eq</i>	<i>kt CO<sub>2</sub> eq</i>	<i>kt CO<sub>2</sub> eq</i>	<i>kt CO<sub>2</sub> eq</i>	<i>kt CO<sub>2</sub> eq</i>	<i>kt CO<sub>2</sub> eq</i>	<i>kt CO<sub>2</sub> eq</i>
CO <sub>2</sub> emissions including net CO <sub>2</sub> from LULUCF	345,496.98	408,440.61	347,608.03	450,041.23	588,890.12	327,728.43	402,148.30	376,356.96	496,518.91	368,956.62
CO <sub>2</sub> emissions excluding net CO <sub>2</sub> from LULUCF	342,785.69	349,419.11	355,728.45	360,064.28	367,464.79	381,110.64	384,749.98	389,440.95	396,846.67	403,087.81
CH <sub>4</sub> emissions including CH <sub>4</sub> from LULUCF	115,890.67	118,350.29	121,577.99	119,399.59	122,572.27	115,924.13	116,850.23	117,022.21	120,725.09	118,270.48
CH <sub>4</sub> emissions excluding CH <sub>4</sub> from LULUCF	113,207.38	115,635.14	117,639.03	114,624.68	111,550.87	112,867.67	112,863.82	113,508.93	114,638.72	115,356.99
N <sub>2</sub> O emissions including N <sub>2</sub> O from LULUCF	25,337.51	26,899.79	28,464.91	28,370.42	29,520.34	27,386.79	27,507.92	27,364.20	27,570.90	27,121.90
N <sub>2</sub> O emissions excluding N <sub>2</sub> O from LULUCF	24,096.91	25,557.12	26,978.58	26,613.97	25,976.63	26,091.58	25,882.33	25,976.79	25,307.79	25,661.28
HFCs	1,149.91	1,357.04	1,936.04	2,446.77	2,977.97	3,527.51	4,097.70	4,504.62	5,067.91	5,693.22
PFCs	976.65	1,103.55	1,544.96	1,481.29	1,443.88	1,469.48	1,536.23	589.10	499.60	381.14
SF <sub>6</sub>	205.53	199.85	206.02	212.25	216.24	217.78	190.85	180.84	170.04	158.40
<b>Total (including LULUCF)</b>	489,057.24	556,351.12	501,337.96	601,951.55	745,620.82	476,254.12	552,331.23	526,017.92	650,552.44	520,581.75
<b>Total (excluding LULUCF)</b>	482,422.06	493,271.81	504,033.08	505,443.24	509,630.39	525,284.66	529,320.91	534,201.23	542,530.73	550,338.84

<i>GREENHOUSE GAS SOURCE AND SINK CATEGORIES</i>	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
	<i>kt CO<sub>2</sub> eq</i>	<i>kt CO<sub>2</sub> eq</i>	<i>kt CO<sub>2</sub> eq</i>	<i>kt CO<sub>2</sub> eq</i>	<i>kt CO<sub>2</sub> eq</i>	<i>kt CO<sub>2</sub> eq</i>	<i>kt CO<sub>2</sub> eq</i>	<i>kt CO<sub>2</sub> eq</i>	<i>kt CO<sub>2</sub> eq</i>	<i>kt CO<sub>2</sub> eq</i>
1. Energy	352,020.19	361,191.27	367,834.78	371,276.92	377,830.34	392,158.64	398,268.99	402,479.66	411,974.53	419,010.84
2. Industrial Processes	25,972.19	25,815.67	26,837.97	27,429.70	28,559.74	29,895.15	29,097.57	29,283.47	30,915.73	31,323.84
3. Solvent and Other Product Use	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO
4. Agriculture	89,894.79	92,218.99	95,132.33	92,413.79	89,814.50	90,168.91	89,079.95	89,821.81	86,714.17	86,676.43
5. Land Use, Land-Use Change and Forestry <sup>b</sup>	6,635.18	63,079.30	-2,695.12	96,508.31	235,990.43	-49,030.54	23,010.32	-8,183.31	108,021.71	-29,757.09
6. Waste	14,534.89	14,045.88	14,228.00	14,322.83	13,425.79	13,061.96	12,874.40	12,616.29	12,926.29	13,327.74
7. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total (including LULUCF)</b>	489,057.24	556,351.12	501,337.96	601,951.55	745,620.82	476,254.12	552,331.23	526,017.92	650,552.44	520,581.75

**Note:** All footnotes for this table are given on sheet 3.

**Emission trends: summary <sup>(1)</sup>**  
**(Sheet 3 of 3)**

CRF: AUS\_CRF\_\_ v1.1

<i>GREENHOUSE GAS EMISSIONS</i>	2009	2010	2011	Change from base to latest reported year
	<i>kt CO<sub>2</sub> eq</i>	<i>kt CO<sub>2</sub> eq</i>	<i>kt CO<sub>2</sub> eq</i>	(%)
CO <sub>2</sub> emissions including net CO <sub>2</sub> from LULUCF	440,953.76	439,966.22	363,518.09	-3.69
CO <sub>2</sub> emissions excluding net CO <sub>2</sub> from LULUCF	405,049.25	406,208.54	406,602.28	46.31
CH <sub>4</sub> emissions including CH <sub>4</sub> from LULUCF	115,345.03	114,068.37	114,171.36	-5.57
CH <sub>4</sub> emissions excluding CH <sub>4</sub> from LULUCF	112,360.54	110,551.68	112,569.20	-3.06
N <sub>2</sub> O emissions including N <sub>2</sub> O from LULUCF	26,374.16	26,353.42	26,199.10	28.42
N <sub>2</sub> O emissions excluding N <sub>2</sub> O from LULUCF	24,983.61	24,574.53	25,064.96	36.10
HFCs	6,278.46	7,020.73	7,641.45	578.47
PFCs	307.89	243.76	259.25	-93.44
SF <sub>6</sub>	143.23	145.19	149.29	-32.51
<b>Total (including LULUCF)</b>	<b>589,402.53</b>	<b>587,797.68</b>	<b>511,938.54</b>	<b>-2.31</b>
<b>Total (excluding LULUCF)</b>	<b>549,122.96</b>	<b>548,744.42</b>	<b>552,286.44</b>	<b>32.21</b>

<i>GREENHOUSE GAS SOURCE AND SINK CATEGORIES</i>	2009	2010	2011	Change from base to latest reported year
	<i>kt CO<sub>2</sub> eq</i>	<i>kt CO<sub>2</sub> eq</i>	<i>kt CO<sub>2</sub> eq</i>	(%)
1. Energy	422,276.07	421,555.98	422,039.53	45.96
2. Industrial Processes	29,709.08	32,067.03	33,312.83	35.04
3. Solvent and Other Product Use	IE, NA, NO	IE, NA, NO	IE, NA, NO	0.00
4. Agriculture	83,860.13	81,632.54	84,142.95	-2.73
5. Land Use, Land-Use Change and Forestry <sup>b</sup>	40,279.56	39,053.26	-40,347.90	-137.96
6. Waste	13,277.67	13,488.88	12,791.14	-26.53
7. Other	NA	NA	NA	0.00
<b>Total (including LULUCF)</b>	<b>589,402.53</b>	<b>587,797.68</b>	<b>511,938.54</b>	<b>-2.31</b>

*Notes :*

(1) Further detailed information could be found in the common reporting format tables of the Party's greenhouse gas inventory, namely "Emission trends (CO<sub>2</sub>)", "Emission trends (CH<sub>4</sub>)", "Emission trends (N<sub>2</sub>O)" and "Emission trends (HFCs, PFCs and SF<sub>6</sub>)", which is included in an annex to this biennial report.

(2) 2011 is the latest reported inventory year.

(3) 1 kt CO<sub>2</sub> eq equals 1 Gg CO<sub>2</sub> eq.

*Abbreviation:* LULUCF = land use, land-use change and forestry.

<sup>a</sup> The column "Base year" should be filled in only by those Parties with economies in transition that use a base year different from 1990 in accordance with the relevant decisions of the Conference of the Parties. For these Parties, this different base year is used to calculate the percentage change in the final column of this table.

<sup>b</sup> Includes net CO<sub>2</sub>, CH<sub>4</sub> and N<sub>2</sub>O from LULUCF.

*Custom Footnotes*

**Emission trends (CO<sub>2</sub>)**  
(Sheet 1 of 3)

CRF: AUS\_CRF\_\_v1.1

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Base year <sup>a</sup>	1991	1992	1993	1994	1995	1996	1997	1998
	kt	kt	kt	kt	kt	kt	kt	kt	kt
<b>1. Energy</b>	259,581.92	261,562.09	266,315.64	270,133.55	273,067.54	283,392.51	290,668.87	299,010.03	311,749.66
A. Fuel Combustion (Sectoral Approach)	252,477.42	254,708.29	259,161.89	263,102.06	266,312.06	276,465.48	284,038.80	292,451.99	304,979.34
1. Energy Industries	142,437.27	145,681.82	149,028.22	150,801.57	151,686.36	157,514.34	162,192.04	168,839.90	181,304.48
2. Manufacturing Industries and Construction	35,406.06	34,971.46	34,559.68	35,029.29	35,843.25	36,718.34	36,803.45	36,927.80	36,839.90
3. Transport	60,662.58	60,017.22	61,115.25	62,339.80	63,872.34	66,500.39	68,799.34	70,116.51	70,135.63
4. Other Sectors	12,911.64	13,006.19	13,373.92	13,823.64	13,773.17	14,477.87	14,891.02	15,184.02	15,434.80
5. Other	1,059.87	1,031.61	1,084.81	1,107.76	1,136.95	1,254.54	1,352.94	1,383.77	1,264.52
B. Fugitive Emissions from Fuels	7,104.50	6,853.80	7,153.75	7,031.49	6,755.48	6,927.03	6,630.06	6,558.04	6,770.32
1. Solid Fuels	1,122.10	1,106.46	1,234.04	1,130.48	1,066.96	1,053.98	1,160.38	1,266.29	1,250.42
2. Oil and Natural Gas	5,982.40	5,747.33	5,919.71	5,901.01	5,688.52	5,873.05	5,469.68	5,291.75	5,519.90
<b>2. Industrial Processes</b>	18,246.73	17,687.61	18,103.39	18,289.69	20,103.68	20,391.31	20,686.14	20,689.23	21,184.66
A. Mineral Products	5,582.90	5,245.72	5,059.58	5,289.25	6,089.85	5,919.84	6,005.22	6,076.17	6,477.61
B. Chemical Industry	1,009.11	1,020.40	1,077.10	1,147.08	1,183.83	1,352.72	1,365.14	1,349.75	1,508.10
C. Metal Production	11,572.15	11,336.42	11,879.16	11,763.31	12,737.46	12,979.91	13,171.35	13,120.72	13,058.49
D. Other Production	82.57	85.06	87.56	90.05	92.55	138.84	144.42	142.58	140.46
E. Production of Halocarbons and SF6									
F. Consumption of Halocarbons and SF6									
G. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>3. Solvent and Other Product Use</b>	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>4. Agriculture</b>									
A. Enteric Fermentation									
B. Manure Management									
C. Rice Cultivation									
D. Agricultural Soils									
E. Prescribed Burning of Savannas									
F. Field Burning of Agricultural Residues									
G. Other									
<b>5. Land Use, Land-Use Change and Forestry</b>	99,543.97	144,529.75	80,004.70	13,062.10	9,537.76	19,398.10	25,421.26	15,314.22	48,381.58
A. Forest Land	-47,330.99	22,173.58	-31,711.85	-79,995.61	-52,343.92	-67,763.75	-61,327.74	-54,859.27	-49,277.26
B. Cropland	31,805.62	26,379.28	27,503.52	18,698.11	13,089.99	16,800.44	19,792.54	11,602.27	18,439.87
C. Grassland	119,947.08	100,251.32	88,480.77	78,721.98	53,380.13	75,152.64	70,903.71	62,462.41	83,677.22
D. Wetlands	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO
E. Settlements	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO
F. Other Land	NO	NO	NO	NO	NO	NO	NO	NO	NO
G. Other	-4,877.74	-4,274.43	-4,267.75	-4,362.38	-4,588.44	-4,791.24	-3,947.25	-3,891.18	-4,458.25
<b>6. Waste</b>	73.26	73.40	73.55	73.69	73.83	79.52	58.08	27.95	28.28
A. Solid Waste Disposal on Land	NA	NA	NA	NA	NA	NA	NA	NA	NA
B. Waste-water Handling									
C. Waste Incineration	73.26	73.40	73.55	73.69	73.83	79.52	58.08	27.95	28.28
D. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>7. Other (as specified in the summary table in CRF)</b>	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total CO<sub>2</sub> emissions including net CO<sub>2</sub> from LULUCF</b>	377,445.88	423,852.84	364,497.27	301,559.02	302,782.82	323,261.43	336,834.35	335,041.42	381,344.17
<b>Total CO<sub>2</sub> emissions excluding net CO<sub>2</sub> from LULUCF</b>	277,901.91	279,323.10	284,492.57	288,496.92	293,245.05	303,863.33	311,413.09	319,727.21	332,962.59
<b>Memo Items:</b>									
<b>International Bunkers</b>	6,396.37	6,372.31	6,579.56	6,980.29	7,357.77	8,528.36	9,023.48	9,051.16	9,440.21
Aviation	4,338.63	4,512.95	4,788.55	5,191.62	5,342.51	5,848.92	6,302.28	6,529.65	7,222.10
Marine	2,057.73	1,859.36	1,791.01	1,788.68	2,015.26	2,679.44	2,721.20	2,521.51	2,218.11
<b>Multilateral Operations</b>	NE	NE	NE	NE	NE	NE	NE	NE	NE
<b>CO<sub>2</sub> Emissions from Biomass</b>	17,438.69	17,218.84	15,485.37	17,561.49	18,687.39	19,683.47	21,008.82	22,239.01	22,642.68

Note: All footnotes for this table are given on sheet 3.

Emission trends (CO<sub>2</sub>)

(Sheet 2 of 3)

CRF: AUS\_CRF\_\_v1.1

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
	kt	kt	kt	kt	kt	kt	kt	kt	kt	kt
<b>1. Energy</b>	320,916.89	328,136.42	334,804.11	339,135.91	346,194.77	359,054.57	364,301.48	368,223.74	374,581.37	381,275.96
A. Fuel Combustion (Sectoral Approach)	313,885.25	320,331.20	326,496.45	331,290.22	339,193.27	352,359.47	357,563.74	361,351.22	367,263.23	373,978.14
1. Energy Industries	188,614.10	191,570.93	198,830.27	200,229.51	207,074.62	215,366.80	218,755.45	223,433.93	226,127.09	228,797.08
2. Manufacturing Industries and Construction	37,584.79	38,570.91	38,021.68	39,472.01	38,554.47	39,641.93	40,640.28	39,615.92	40,203.71	42,233.66
3. Transport	70,856.14	72,789.33	71,385.71	72,978.51	74,356.14	78,111.87	78,429.01	78,892.91	81,045.07	82,870.62
4. Other Sectors	15,664.78	16,201.23	17,045.53	17,439.46	18,041.56	18,004.69	18,446.65	18,324.17	18,504.30	18,636.21
5. Other	1,165.43	1,198.81	1,213.25	1,170.73	1,166.48	1,234.17	1,292.35	1,084.29	1,383.06	1,440.57
B. Fugitive Emissions from Fuels	7,031.64	7,805.22	8,307.67	7,845.69	7,001.50	6,695.10	6,737.74	6,872.52	7,318.15	7,297.82
1. Solid Fuels	1,055.48	1,076.63	1,136.97	1,143.59	1,002.78	952.58	1,179.86	1,093.02	1,160.84	1,038.89
2. Oil and Natural Gas	5,976.16	6,728.59	7,170.70	6,702.10	5,998.72	5,742.52	5,557.88	5,779.49	6,157.31	6,258.93
<b>2. Industrial Processes</b>	21,840.02	21,255.03	20,896.53	20,900.41	21,241.91	22,027.79	20,420.07	21,188.51	22,236.24	21,782.36
A. Mineral Products	6,560.69	6,354.07	6,361.51	6,414.81	6,553.38	6,514.51	6,604.54	6,795.53	7,112.83	7,021.51
B. Chemical Industry	1,506.10	1,659.01	1,921.50	1,958.53	2,317.90	2,569.36	2,725.27	3,416.88	3,917.96	3,443.47
C. Metal Production	13,630.44	13,096.83	12,466.07	12,377.29	12,218.77	12,778.91	10,922.79	10,815.61	11,057.18	11,154.00
D. Other Production	142.79	145.12	147.45	149.78	151.86	165.00	167.47	160.49	148.28	163.38
E. Production of Halocarbons and SF6										
F. Consumption of Halocarbons and SF6										
G. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>3. Solvent and Other Product Use</b>	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>4. Agriculture</b>										
A. Enteric Fermentation										
B. Manure Management										
C. Rice Cultivation										
D. Agricultural Soils										
E. Prescribed Burning of Savannas										
F. Field Burning of Agricultural Residues										
G. Other										
<b>5. Land Use, Land-Use Change and Forestry</b>	2,711.29	59,021.50	-8,120.42	89,976.95	221,425.33	-53,382.22	17,398.32	-13,083.99	99,672.24	-34,131.19
A. Forest Land	-68,183.83	-51,872.87	-71,723.25	6,128.76	138,667.72	-124,448.54	-90,359.74	-97,905.46	-14,701.24	-111,987.54
B. Cropland	10,144.03	11,573.58	12,742.06	17,260.12	14,981.80	10,574.83	14,658.45	15,932.96	18,044.80	11,224.40
C. Grassland	64,723.71	103,943.73	54,739.88	70,464.18	72,127.05	65,085.98	97,629.21	73,182.72	100,536.17	71,324.24
D. Wetlands	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO
E. Settlements	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO
F. Other Land	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
G. Other	-3,972.62	-4,622.94	-3,879.10	-3,876.11	-4,351.25	-4,594.49	-4,529.60	-4,294.21	-4,207.49	-4,692.29
<b>6. Waste</b>	28.77	27.66	27.80	27.96	28.12	28.28	28.43	28.70	29.05	29.49
A. Solid Waste Disposal on Land	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B. Waste-water Handling										
C. Waste Incineration	28.77	27.66	27.80	27.96	28.12	28.28	28.43	28.70	29.05	29.49
D. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>7. Other (as specified in the summary table in CRF)</b>	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total CO2 emissions including net CO2 from LULUCF</b>	345,496.98	408,440.61	347,608.03	450,041.23	588,890.12	327,728.43	402,148.30	376,356.96	496,518.91	368,956.62
<b>Total CO2 emissions excluding net CO2 from LULUCF</b>	342,785.69	349,419.11	355,728.45	360,064.28	367,464.79	381,110.64	384,749.98	389,440.95	396,846.67	403,087.81
<b>Memo Items:</b>										
<b>International Bunkers</b>	9,709.36	10,091.53	10,385.44	9,524.76	8,683.89	9,893.74	10,839.36	11,439.90	11,806.86	12,088.02
Aviation	7,257.24	7,319.94	7,782.26	6,683.99	5,914.69	7,101.52	8,209.08	8,309.34	9,263.71	9,178.37
Marine	2,452.13	2,771.59	2,603.18	2,840.77	2,769.20	2,792.22	2,630.28	3,130.56	2,543.15	2,909.65
<b>Multilateral Operations</b>	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
<b>CO2 Emissions from Biomass</b>	22,283.94	22,349.61	21,319.73	19,255.80	17,545.91	17,343.11	17,408.95	17,515.85	18,054.99	18,210.89

Note: All footnotes for this table are given on sheet 3.

**Emission trends (CO<sub>2</sub>)**  
**(Sheet 3 of 3)**

CRF: AUS\_CRF\_\_ v1.1

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	2009	2010	2011	Change from base to latest reported year
	kt	kt	kt	%
<b>1. Energy</b>	385,240.37	384,868.19	384,044.08	47.95
A. Fuel Combustion (Sectoral Approach)	377,474.11	376,647.94	376,391.59	49.08
1. Energy Industries	235,783.25	231,809.51	228,979.92	60.76
2. Manufacturing Industries and Construction	39,127.74	40,716.15	40,725.93	15.03
3. Transport	82,485.65	83,611.63	85,624.52	41.15
4. Other Sectors	18,665.47	19,014.97	19,469.45	50.79
5. Other	1,412.01	1,495.68	1,591.77	50.19
B. Fugitive Emissions from Fuels	7,766.26	8,220.25	7,652.48	7.71
1. Solid Fuels	1,208.41	1,181.26	1,421.98	26.72
2. Oil and Natural Gas	6,557.85	7,038.98	6,230.50	4.15
<b>2. Industrial Processes</b>	19,778.96	21,310.64	22,528.59	23.47
A. Mineral Products	6,535.57	6,432.70	6,555.55	17.42
B. Chemical Industry	3,180.20	3,558.86	3,354.02	232.37
C. Metal Production	9,901.79	11,087.43	12,356.89	6.78
D. Other Production	161.40	231.66	262.13	217.47
E. Production of Halocarbons and SF <sub>6</sub>				
F. Consumption of Halocarbons and SF <sub>6</sub>				
G. Other	NA	NA	NA	0.00
<b>3. Solvent and Other Product Use</b>	NA	NA	NA	0.00
<b>4. Agriculture</b>				
A. Enteric Fermentation				
B. Manure Management				
C. Rice Cultivation				
D. Agricultural Soils				
E. Prescribed Burning of Savannas				
F. Field Burning of Agricultural Residues				
G. Other				
<b>5. Land Use, Land-Use Change and Forestry</b>	35,904.52	33,757.69	-43,084.19	-143.28
A. Forest Land	-52,113.60	-55,085.64	-102,944.53	117.50
B. Cropland	13,757.26	19,314.06	15,511.44	-51.23
C. Grassland	77,762.65	73,054.36	47,804.93	-60.14
D. Wetlands	IE, NE, NO	IE, NE, NO	IE, NE, NO	0.00
E. Settlements	IE, NE, NO	IE, NE, NO	IE, NE, NO	0.00
F. Other Land	NO	NO	NO	0.00
G. Other	-3,501.79	-3,525.10	-3,456.03	-29.15
<b>6. Waste</b>	29.91	29.71	29.62	-59.57
A. Solid Waste Disposal on Land	NA	NA	NA	0.00
B. Waste-water Handling				
C. Waste Incineration	29.91	29.71	29.62	-59.57
D. Other	NA	NA	NA	0.00
<b>7. Other (as specified in the summary table in CRF)</b>	NA	NA	NA	0.00
<b>Total CO<sub>2</sub> emissions including net CO<sub>2</sub> from LULUCF</b>	440,953.76	439,966.22	363,518.09	-3.69
<b>Total CO<sub>2</sub> emissions excluding net CO<sub>2</sub> from LULUCF</b>	405,049.25	406,208.54	406,602.28	46.31
<b>Memo Items:</b>				
<b>International Bunkers</b>	12,074.02	12,409.81	12,234.29	91.27
Aviation	9,378.74	10,243.55	10,318.51	137.83
Marine	2,695.28	2,166.27	1,915.78	-6.90
<b>Multilateral Operations</b>	NE	NE	NE	0.00
<b>CO<sub>2</sub> Emissions from Biomass</b>	18,403.55	17,573.51	17,036.79	-2.30

Abbreviations: CRF = common reporting format, LULUCF = land use, land-use change and forestry.

<sup>a</sup> The column "Base year" should be filled in only by those Parties with economies in transition that use a base year different from 1990 in accordance with the relevant decisions of the Conference of the Parties. For these Parties, this different base year is used to calculate the percentage change in the final column of this table.

<sup>b</sup> Fill in net emissions/removals as reported in CRF table Summary 1.A of the latest reported inventory year. For the purposes of reporting, the signs for removals are always negative (-) and for emissions positive (+).

Custom Footnotes

**Emission trends (CH<sub>4</sub>)**

(Sheet 1 of 3)

CRF: AUS\_CRF\_\_ v1.1

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Base year <sup>a</sup>	1991	1992	1993	1994	1995	1996	1997	1998
	kt	kt	kt	kt	kt	kt	kt	kt	kt
<b>1. Energy</b>	1,333.21	1,323.42	1,380.34	1,350.42	1,277.96	1,338.38	1,333.48	1,451.70	1,485.90
A. Fuel Combustion (Sectoral Approach)	130.91	133.49	137.01	138.00	136.04	133.43	130.80	128.19	122.88
1. Energy Industries	2.65	2.67	2.69	2.88	2.95	3.21	3.29	3.35	5.87
2. Manufacturing Industries and Construction	1.73	1.68	1.58	1.70	1.78	1.83	1.89	1.91	1.92
3. Transport	28.21	28.18	28.95	29.74	30.77	31.79	32.48	32.72	31.84
4. Other Sectors	98.27	100.92	103.74	103.64	100.50	96.55	93.08	90.17	83.20
5. Other	0.05	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05
B. Fugitive Emissions from Fuels	1,202.30	1,189.93	1,243.33	1,212.42	1,141.92	1,204.95	1,202.69	1,323.51	1,363.02
1. Solid Fuels	865.00	887.90	922.67	932.08	857.74	864.69	891.39	998.76	1,047.07
2. Oil and Natural Gas	337.30	302.04	320.66	280.34	284.19	340.26	311.29	324.75	315.95
<b>2. Industrial Processes</b>	3.27	3.01	3.30	3.34	3.72	3.94	4.02	3.94	4.12
A. Mineral Products	NA	NA	NA	NA	NA	NA	NA	NA	NA
B. Chemical Industry	0.44	0.40	0.41	0.32	0.40	0.52	0.59	0.57	0.51
C. Metal Production	2.83	2.60	2.89	3.01	3.33	3.42	3.43	3.37	3.61
D. Other Production									
E. Production of Halocarbons and SF6									
F. Consumption of Halocarbons and SF6									
G. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>3. Solvent and Other Product Use</b>									
<b>4. Agriculture</b>	3,383.40	3,398.35	3,315.03	3,247.05	3,202.76	3,231.57	3,258.91	3,298.35	3,293.98
A. Enteric Fermentation	3,043.75	3,049.41	2,987.15	2,919.95	2,850.41	2,825.82	2,814.63	2,835.32	2,832.67
B. Manure Management	73.35	73.42	74.91	77.89	80.53	82.16	83.19	86.80	90.44
C. Rice Cultivation	23.36	24.94	25.72	28.69	28.87	30.89	33.56	34.44	34.50
D. Agricultural Soils	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE
E. Prescribed Burning of Savannas	233.76	241.61	218.08	210.67	233.30	282.63	316.62	329.40	323.35
F. Field Burning of Agricultural Residues	9.18	8.96	9.17	9.85	9.66	10.07	10.91	12.40	13.01
G. Other	NO	NO	NO	NO	NO	NO	NO	NO	NO
<b>5. Land Use, Land-Use Change and Forestry</b>	227.36	313.67	216.79	147.46	197.56	143.26	163.00	147.15	172.32
A. Forest Land	65.95	168.07	94.65	41.41	85.33	55.82	73.63	58.14	87.98
B. Cropland	38.37	34.45	28.84	23.63	25.64	21.13	22.21	22.21	21.00
C. Grassland	123.03	111.15	93.31	82.42	86.60	66.31	67.15	66.80	63.33
D. Wetlands	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO
E. Settlements	IE, NE	IE, NE	IE, NE	IE, NE	IE, NE	IE, NE	IE, NE	IE, NE	IE, NE
F. Other Land	NO	NO	NO	NO	NO	NO	NO	NO	NO
G. Other	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
<b>6. Waste</b>	809.97	808.07	800.21	795.29	768.75	768.34	706.20	698.88	668.34
A. Solid Waste Disposal on Land	645.49	645.38	640.33	639.02	615.33	620.45	564.31	560.81	534.31
B. Waste-water Handling	164.13	162.20	159.26	155.51	152.53	146.88	140.74	136.79	132.63
C. Waste Incineration	NA	NA	NA	NA	NA	NA	NA	NA	NA
D. Other	0.35	0.48	0.62	0.75	0.88	1.01	1.15	1.28	1.41
<b>7. Other (as specified in the summary table in CRF)</b>	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total CH4 emissions including CH4 from LULUCF</b>	5,757.20	5,846.52	5,715.68	5,543.55	5,450.75	5,485.50	5,465.61	5,600.02	5,624.66
<b>Total CH4 emissions excluding CH4 from LULUCF</b>	5,529.84	5,532.85	5,498.88	5,396.09	5,253.19	5,342.23	5,302.61	5,452.87	5,452.34
<b>Memo Items:</b>									
<b>International Bunkers</b>	0.12	0.10	0.10	0.10	0.11	0.15	0.14	0.14	0.12
Aviation	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Marine	0.11	0.09	0.09	0.09	0.10	0.14	0.14	0.13	0.11
<b>Multilateral Operations</b>	NE	NE	NE	NE	NE	NE	NE	NE	NE
<b>CO2 Emissions from Biomass</b>									

Note: All footnotes for this table are given on sheet 3.



**Emission trends (CH<sub>4</sub>)**  
(Sheet 2 of 3)

CRF: AUS\_CRF\_\_ v1.1

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
	kt	kt	kt	kt	kt	kt	kt	kt	kt	kt
<b>1. Energy</b>	1,357.93	1,444.90	1,441.83	1,394.70	1,365.77	1,430.29	1,474.69	1,492.61	1,642.88	1,659.72
A. Fuel Combustion (Sectoral Approach)	115.93	112.21	108.73	97.01	95.34	92.39	87.69	86.30	89.22	88.43
1. Energy Industries	6.25	9.60	9.55	10.58	8.79	12.77	15.79	16.08	18.83	20.31
2. Manufacturing Industries and Construction	1.92	1.90	1.80	1.81	1.49	1.52	1.58	1.59	1.62	1.69
3. Transport	31.13	30.23	28.48	28.20	27.44	27.14	23.88	22.71	21.55	20.32
4. Other Sectors	76.60	70.44	68.85	56.39	57.59	50.93	46.42	45.89	47.15	46.05
5. Other	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.06	0.06
B. Fugitive Emissions from Fuels	1,242.00	1,332.69	1,333.10	1,297.69	1,270.43	1,337.90	1,386.99	1,406.30	1,553.66	1,571.29
1. Solid Fuels	979.65	1,049.28	1,042.40	1,025.01	1,015.10	1,088.22	1,145.93	1,176.24	1,329.35	1,329.63
2. Oil and Natural Gas	262.35	283.41	290.69	272.68	255.33	249.69	241.06	230.06	224.31	241.66
<b>2. Industrial Processes</b>	3.84	3.47	3.24	3.22	3.44	3.44	3.26	3.53	3.55	3.56
A. Mineral Products	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B. Chemical Industry	0.48	0.58	0.49	0.50	0.58	0.55	0.55	0.57	0.57	0.58
C. Metal Production	3.36	2.90	2.75	2.71	2.87	2.88	2.70	2.96	2.98	2.98
D. Other Production										
E. Production of Halocarbons and SF6										
F. Consumption of Halocarbons and SF6										
G. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>3. Solvent and Other Product Use</b>										
<b>4. Agriculture</b>	3,355.51	3,407.90	3,498.12	3,397.40	3,322.76	3,338.48	3,303.19	3,328.27	3,217.31	3,216.60
A. Enteric Fermentation	2,864.43	2,877.83	2,896.98	2,833.81	2,835.66	2,849.29	2,863.33	2,813.73	2,724.17	2,672.21
B. Manure Management	92.69	94.18	96.92	98.32	97.42	95.51	95.30	94.32	90.57	86.65
C. Rice Cultivation	31.94	35.30	35.13	28.06	19.01	11.28	16.26	12.62	9.35	2.05
D. Agricultural Soils	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE
E. Prescribed Burning of Savannas	353.47	387.36	455.43	425.71	358.81	371.40	314.88	396.58	383.14	446.78
F. Field Burning of Agricultural Residues	12.98	13.24	13.66	11.50	11.86	11.00	13.43	11.03	10.09	8.91
G. Other	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
<b>5. Land Use, Land-Use Change and Forestry</b>	127.78	129.29	187.57	227.38	524.83	145.55	189.83	167.30	289.83	138.74
A. Forest Land	35.07	37.14	83.76	133.74	442.52	54.07	64.94	56.32	190.15	66.31
B. Cropland	20.84	20.22	21.13	20.02	20.08	22.48	26.52	26.06	23.01	19.77
C. Grassland	71.87	71.94	82.68	73.61	62.23	69.00	98.37	84.91	76.66	52.65
D. Wetlands	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO
E. Settlements	IE, NE	IE, NE	IE, NE	IE, NE	IE, NE	IE, NE	IE, NE	IE, NE	IE, NE	IE, NE
F. Other Land	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
G. Other	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
<b>6. Waste</b>	673.54	650.16	658.67	663.00	619.98	602.44	593.33	580.79	595.24	613.32
A. Solid Waste Disposal on Land	541.39	534.08	535.90	542.97	505.54	486.40	476.39	462.64	475.23	492.09
B. Waste-water Handling	130.60	114.40	120.95	118.09	112.36	113.83	114.60	115.63	117.35	118.36
C. Waste Incineration	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
D. Other	1.55	1.68	1.81	1.94	2.08	2.21	2.34	2.52	2.66	2.87
<b>7. Other (as specified in the summary table in CRF)</b>	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total CH4 emissions including CH4 from LULUCF</b>	5,518.60	5,635.73	5,789.43	5,685.69	5,836.77	5,520.20	5,564.30	5,572.49	5,748.81	5,631.93
<b>Total CH4 emissions excluding CH4 from LULUCF</b>	5,390.83	5,506.44	5,601.86	5,458.32	5,311.95	5,374.65	5,374.47	5,405.19	5,458.99	5,493.19
<b>Memo Items:</b>										
<b>International Bunkers</b>	0.13	0.15	0.14	0.16	0.16	0.15	0.14	0.18	0.13	0.15
Aviation	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.01
Marine	0.12	0.13	0.13	0.14	0.14	0.14	0.13	0.17	0.12	0.13
<b>Multilateral Operations</b>	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
<b>CO2 Emissions from Biomass</b>										

Note: All footnotes for this table are given on sheet 3.

**Emission trends (CH<sub>4</sub>)**

(Sheet 3 of 3)

CRF: AUS\_CRF\_\_ v1.1

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	2009	2010	2011	Change from base to latest reported year
	kt	kt	kt	%
<b>1. Energy</b>	1,630.14	1,619.08	1,685.40	26.42
A. Fuel Combustion (Sectoral Approach)	86.66	84.87	85.50	-34.69
1. Energy Industries	20.83	20.19	22.55	752.29
2. Manufacturing Industries and Construction	1.61	1.72	1.69	-2.58
3. Transport	19.26	18.64	17.62	-37.56
4. Other Sectors	44.91	44.27	43.60	-55.63
5. Other	0.05	0.05	0.04	-6.68
B. Fugitive Emissions from Fuels	1,543.48	1,534.21	1,599.90	33.07
1. Solid Fuels	1,314.97	1,292.14	1,326.01	53.30
2. Oil and Natural Gas	228.51	242.07	273.89	-18.80
<b>2. Industrial Processes</b>	3.07	3.13	2.73	-16.48
A. Mineral Products	NA	NA	NA	0.00
B. Chemical Industry	0.58	0.58	0.58	32.02
C. Metal Production	2.50	2.55	2.15	-23.97
D. Other Production				
E. Production of Halocarbons and SF6				
F. Consumption of Halocarbons and SF6				
G. Other	NA	NA	NA	0.00
<b>3. Solvent and Other Product Use</b>				
<b>4. Agriculture</b>	3,105.22	3,019.09	3,083.35	-8.87
A. Enteric Fermentation	2,599.66	2,603.63	2,610.36	-14.24
B. Manure Management	83.33	82.48	81.31	10.85
C. Rice Cultivation	2.20	8.43	15.70	-32.80
D. Agricultural Soils	NA, NE	NA, NE	NA, NE	0.00
E. Prescribed Burning of Savannas	409.73	312.56	362.44	55.05
F. Field Burning of Agricultural Residues	10.30	11.99	13.54	47.51
G. Other	NO	NO	NO	0.00
<b>5. Land Use, Land-Use Change and Forestry</b>	142.12	167.46	76.29	-66.44
A. Forest Land	79.18	110.81	29.98	-54.54
B. Cropland	18.53	18.69	16.04	-58.21
C. Grassland	44.41	37.96	30.27	-75.39
D. Wetlands	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	0.00
E. Settlements	IE, NE	IE, NE	IE, NE	0.00
F. Other Land	NO	NO	NO	0.00
G. Other	NA, NO	NA, NO	NA, NO	0.00
<b>6. Waste</b>	612.07	623.06	588.96	-27.29
A. Solid Waste Disposal on Land	490.29	502.56	476.03	-26.25
B. Waste-water Handling	118.77	117.10	109.47	-33.30
C. Waste Incineration	NA	NA	NA	0.00
D. Other	3.01	3.40	3.47	889.83
<b>7. Other (as specified in the summary table in CRF)</b>	NA	NA	NA	0.00
<b>Total CH<sub>4</sub> emissions including CH<sub>4</sub> from LULUCF</b>	5,492.62	5,431.83	5,436.73	-5.57
<b>Total CH<sub>4</sub> emissions excluding CH<sub>4</sub> from LULUCF</b>	5,350.50	5,264.37	5,360.44	-3.06
<b>Memo Items:</b>				
<b>International Bunkers</b>	0.14	0.12	0.11	-9.27
Aviation	0.02	0.02	0.02	123.78
Marine	0.12	0.10	0.09	-19.64
<b>Multilateral Operations</b>	NE	NE	NE	0.00
<b>CO<sub>2</sub> Emissions from Biomass</b>				

Abbreviations : CRF = common reporting format, LULUCF = land use, land-use change and forestry

<sup>a</sup> The column "Base year" should be filled in only by those Parties with economies in transition that use a base year different from 1990 in accordance with the relevant decisions of the Conference of the Parties. For these Parties, this different base year is used to calculate the percentage change in the final column of this table.

Custom Footnotes

**Emission trends (N<sub>2</sub>O)**  
(Sheet 1 of 3)

CRF: AUS\_CRF\_\_ v1.1

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Base year <sup>a</sup>	1991	1992	1993	1994	1995	1996	1997	1998
	kt	kt	kt	kt	kt	kt	kt	kt	kt
<b>1. Energy</b>	5.08	5.35	5.58	5.95	6.28	6.69	7.08	7.40	7.95
A. Fuel Combustion (Sectoral Approach)	4.97	5.24	5.47	5.85	6.19	6.59	6.98	7.33	7.84
1. Energy Industries	1.65	1.70	1.70	1.73	1.76	1.83	1.92	2.03	2.19
2. Manufacturing Industries and Construction	0.53	0.52	0.47	0.52	0.55	0.57	0.60	0.63	0.63
3. Transport	2.50	2.74	3.01	3.31	3.59	3.89	4.16	4.38	4.74
4. Other Sectors	0.26	0.27	0.27	0.28	0.27	0.27	0.27	0.27	0.26
5. Other	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02
B. Fugitive Emissions from Fuels	0.12	0.11	0.11	0.11	0.10	0.10	0.11	0.08	0.11
1. Solid Fuels	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2. Oil and Natural Gas	0.12	0.11	0.11	0.11	0.10	0.10	0.11	0.08	0.11
<b>2. Industrial Processes</b>	3.41	2.83	3.73	4.71	4.66	4.66	5.21	5.37	5.71
A. Mineral Products	NA	NA	NA	NA	NA	NA	NA	NA	NA
B. Chemical Industry	3.34	2.76	3.65	4.64	4.58	4.58	5.13	5.29	5.63
C. Metal Production	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08
D. Other Production									
E. Production of Halocarbons and SF6									
F. Consumption of Halocarbons and SF6									
G. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>3. Solvent and Other Product Use</b>	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO
<b>4. Agriculture</b>	49.86	50.58	49.73	50.35	51.27	54.13	56.39	58.91	59.88
A. Enteric Fermentation									
B. Manure Management	1.69	1.87	2.15	2.45	2.71	2.91	3.16	3.49	3.76
C. Rice Cultivation									
D. Agricultural Soils	43.17	43.55	42.99	43.30	43.13	44.38	45.58	47.47	48.44
E. Prescribed Burning of Savannas	4.68	4.85	4.27	4.26	5.08	6.48	7.27	7.54	7.25
F. Field Burning of Agricultural Residues	0.32	0.31	0.32	0.35	0.35	0.36	0.38	0.42	0.43
G. Other	NO	NO	NO	NO	NO	NO	NO	NO	NO
<b>5. Land Use, Land-Use Change and Forestry</b>	6.40	7.24	5.62	4.13	4.97	4.24	4.77	4.29	5.53
A. Forest Land	1.22	3.11	1.75	0.77	1.58	1.03	1.36	1.07	1.63
B. Cropland	1.26	1.11	1.12	0.92	0.82	0.90	0.94	0.83	0.98
C. Grassland	2.27	2.05	1.72	1.52	1.60	1.23	1.24	1.23	1.17
D. Wetlands	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO
E. Settlements	IE, NE	IE, NE	IE, NE	IE, NE	IE, NE	IE, NE	IE, NE	IE, NE	IE, NE
F. Other Land	NO	NO	NO	NO	NO	NO	NO	NO	NO
G. Other	1.65	0.96	1.02	0.92	0.96	1.08	1.22	1.15	1.76
<b>6. Waste</b>	1.06	1.08	1.09	1.10	1.09	1.08	1.10	1.14	1.16
A. Solid Waste Disposal on Land									
B. Waste-water Handling	1.02	1.03	1.05	1.06	1.04	1.03	1.06	1.13	1.15
C. Waste Incineration	0.04	0.04	0.04	0.04	0.04	0.04	0.02	NA	NA
D. Other	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01
<b>7. Other (as specified in the summary table in CRF)</b>	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total N2O emissions including N2O from LULUCF</b>	65.81	67.08	65.75	66.25	68.26	70.80	74.55	77.12	80.24
<b>Total N2O emissions excluding N2O from LULUCF</b>	59.41	59.84	60.13	62.12	63.30	66.57	69.78	72.83	74.70
<b>Memo Items:</b>									
<b>International Bunkers</b>	0.19	0.19	0.20	0.21	0.22	0.25	0.27	0.27	0.28
Aviation	0.13	0.14	0.15	0.16	0.16	0.18	0.19	0.20	0.22
Marine	0.06	0.05	0.05	0.05	0.06	0.07	0.08	0.07	0.06
<b>Multilateral Operations</b>	NE	NE	NE	NE	NE	NE	NE	NE	NE
<b>CO2 Emissions from Biomass</b>									

Note: All footnotes for this table are given on sheet 3.

Emission trends (N<sub>2</sub>O)

(Sheet 2 of 3)

CRF: AUS\_CRF\_\_ v1.1

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
	kt	kt	kt	kt	kt	kt	kt	kt	kt	kt
<b>1. Energy</b>	8.34	8.75	8.88	9.20	9.53	9.90	9.67	9.39	9.33	9.29
A. Fuel Combustion (Sectoral Approach)	8.26	8.66	8.78	9.11	9.45	9.82	9.60	9.32	9.25	9.21
1. Energy Industries	2.24	2.26	2.30	2.28	2.31	2.40	2.44	2.41	2.36	2.50
2. Manufacturing Industries and Construction	0.63	0.62	0.59	0.58	0.47	0.48	0.50	0.50	0.51	0.53
3. Transport	5.12	5.51	5.62	6.01	6.42	6.70	6.44	6.18	6.13	5.93
4. Other Sectors	0.25	0.25	0.25	0.23	0.24	0.23	0.22	0.21	0.22	0.22
5. Other	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03
B. Fugitive Emissions from Fuels	0.08	0.09	0.10	0.09	0.08	0.08	0.07	0.07	0.08	0.08
1. Solid Fuels	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2. Oil and Natural Gas	0.08	0.09	0.10	0.09	0.08	0.08	0.07	0.07	0.08	0.08
<b>2. Industrial Processes</b>	5.55	5.89	7.05	7.49	8.41	8.32	8.98	8.86	9.25	10.43
A. Mineral Products	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B. Chemical Industry	5.47	5.82	6.99	7.43	8.35	8.26	8.93	8.80	9.19	10.38
C. Metal Production	0.08	0.07	0.06	0.06	0.06	0.06	0.06	0.05	0.06	0.06
D. Other Production										
E. Production of Halocarbons and SF6										
F. Consumption of Halocarbons and SF6										
G. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>3. Solvent and Other Product Use</b>	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO
<b>4. Agriculture</b>	62.67	66.62	69.91	67.96	64.63	64.71	63.59	64.28	61.78	61.70
A. Enteric Fermentation										
B. Manure Management	4.02	4.26	4.27	4.26	4.32	4.62	4.99	5.21	5.13	5.05
C. Rice Cultivation										
D. Agricultural Soils	50.15	52.42	53.94	52.65	51.72	51.56	51.55	49.90	47.61	46.30
E. Prescribed Burning of Savannas	8.08	9.52	11.26	10.67	8.22	8.19	6.65	8.83	8.71	10.06
F. Field Burning of Agricultural Residues	0.42	0.42	0.44	0.37	0.37	0.34	0.40	0.35	0.33	0.28
G. Other	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
<b>5. Land Use, Land-Use Change and Forestry</b>	4.00	4.33	4.79	5.67	11.43	4.18	5.24	4.48	7.30	4.71
A. Forest Land	0.65	0.69	1.55	2.47	8.18	1.00	1.20	1.04	3.52	1.23
B. Cropland	0.92	0.87	0.81	0.81	0.87	0.81	0.96	0.83	0.95	0.85
C. Grassland	1.33	1.33	1.53	1.36	1.15	1.28	1.82	1.57	1.42	0.97
D. Wetlands	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO
E. Settlements	IE, NE	IE, NE	IE, NE	IE, NE	IE, NE	IE, NE	IE, NE	IE, NE	IE, NE	IE, NE
F. Other Land	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
G. Other	1.10	1.45	0.90	1.02	1.23	1.10	1.26	1.03	1.41	1.66
<b>6. Waste</b>	1.17	1.18	1.19	1.20	1.22	1.23	1.25	1.26	1.28	1.35
A. Solid Waste Disposal on Land										
B. Waste-water Handling	1.15	1.16	1.17	1.18	1.20	1.21	1.23	1.24	1.26	1.33
C. Waste Incineration	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
D. Other	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
<b>7. Other (as specified in the summary table in CRF)</b>	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total N2O emissions including N2O from LULUCF</b>	81.73	86.77	91.82	91.52	95.23	88.34	88.74	88.27	88.94	87.49
<b>Total N2O emissions excluding N2O from LULUCF</b>	77.73	82.44	87.03	85.85	83.80	84.17	83.49	83.80	81.64	82.78
<b>Memo Items:</b>										
<b>International Bunkers</b>	0.29	0.30	0.31	0.28	0.26	0.29	0.32	0.34	0.35	0.36
Aviation	0.22	0.22	0.24	0.20	0.18	0.22	0.25	0.25	0.28	0.28
Marine	0.07	0.08	0.07	0.08	0.08	0.08	0.07	0.09	0.07	0.08
<b>Multilateral Operations</b>	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
<b>CO2 Emissions from Biomass</b>										

Note: All footnotes for this table are given on sheet 3.

Emission trends (N<sub>2</sub>O)

(Sheet 3 of 3)

CRF: AUS\_CRF\_\_ v1.1

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	2009	2010	2011	Change from base to latest reported year
	kt	kt	kt	%
<b>1. Energy</b>	9.04	8.67	8.39	65.16
A. Fuel Combustion (Sectoral Approach)	8.94	8.56	8.30	67.19
1. Energy Industries	2.55	2.45	2.35	42.37
2. Manufacturing Industries and Construction	0.51	0.52	0.51	-4.00
3. Transport	5.64	5.35	5.19	107.51
4. Other Sectors	0.21	0.21	0.21	-18.32
5. Other	0.03	0.03	0.03	93.86
B. Fugitive Emissions from Fuels	0.10	0.11	0.09	-21.10
1. Solid Fuels	0.00	0.00	0.00	58,583.10
2. Oil and Natural Gas	0.10	0.11	0.09	-21.37
<b>2. Industrial Processes</b>	10.12	10.58	8.64	153.31
A. Mineral Products	NA	NA	NA	0.00
B. Chemical Industry	10.07	10.53	8.57	156.65
C. Metal Production	0.05	0.06	0.07	-6.24
D. Other Production				
E. Production of Halocarbons and SF6				
F. Consumption of Halocarbons and SF6				
G. Other	NA	NA	NA	0.00
<b>3. Solvent and Other Product Use</b>	IE, NA, NO	IE, NA, NO	IE, NA, NO	0.00
<b>4. Agriculture</b>	60.16	58.81	62.56	25.48
A. Enteric Fermentation				
B. Manure Management	4.98	5.05	4.98	194.62
C. Rice Cultivation				
D. Agricultural Soils	46.04	46.77	48.32	11.94
E. Prescribed Burning of Savannas	8.83	6.63	8.83	88.86
F. Field Burning of Agricultural Residues	0.32	0.36	0.42	30.74
G. Other	NO	NO	NO	0.00
<b>5. Land Use, Land-Use Change and Forestry</b>	4.49	5.74	3.66	-42.86
A. Forest Land	1.46	2.05	0.55	-54.54
B. Cropland	0.80	0.85	0.88	-30.38
C. Grassland	0.82	0.70	0.56	-75.39
D. Wetlands	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	0.00
E. Settlements	IE, NE	IE, NE	IE, NE	0.00
F. Other Land	NO	NO	NO	0.00
G. Other	1.40	2.13	1.67	1.03
<b>6. Waste</b>	1.27	1.21	1.27	19.76
A. Solid Waste Disposal on Land				
B. Waste-water Handling	1.25	1.18	1.24	21.63
C. Waste Incineration	NA	NA	NA	-100.00
D. Other	0.03	0.03	0.03	889.83
<b>7. Other (as specified in the summary table in CRF)</b>	NA	NA	NA	0.00
<b>Total N2O emissions including N2O from LULUCF</b>	85.08	85.01	84.51	28.42
<b>Total N2O emissions excluding N2O from LULUCF</b>	80.59	79.27	80.85	36.10
<b>Memo Items:</b>				
<b>International Bunkers</b>	0.36	0.37	0.37	93.15
Aviation	0.28	0.31	0.31	136.57
Marine	0.07	0.06	0.05	-7.49
<b>Multilateral Operations</b>	NE	NE	NE	0.00
<b>CO2 Emissions from Biomass</b>				

Abbreviations : CRF = common reporting format, LULUCF = land use, land-use change and fo

<sup>a</sup> The column "Base year" should be filled in only by those Parties with economies in transition that use a base year different from 1990 in accordance with the relevant decisions of the Conference of the Parties. For these Parties, this different base year is used to calculate the percentage change in the final column of this table.

Custom Footnotes

Table 1(d)

AUS\_BR1\_v1.0

**Emission trends (HFCs, PFCs and SF<sub>6</sub>)**

(Sheet 1 of 3)

CRF: AUS\_CRF\_\_ v1.1

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Base year <sup>a</sup>	1991	1992	1993	1994	1995	1996	1997	1998
	kt	kt	kt	kt	kt	kt	kt	kt	kt
<b>Emissions of HFCsc - (kt CO<sub>2</sub> eq)</b>	1,126.27	1,126.27	1,053.94	1,446.59	812.40	812.55	384.01	641.33	872.07
HFC-23	0.10	0.10	0.09	0.12	0.07	0.06	IE, NA, NO	IE, NA, NO	IE, NA, NO
HFC-32	NA, NO	NA, NO	NA, NO	NA, NO	0.00	0.00	0.02	0.03	0.05
HFC-41	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO
HFC-43-10mee	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO
HFC-125	NA, NO	NA, NO	NA, NO	NA, NO	0.00	0.00	0.02	0.03	0.04
HFC-134	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO
HFC-134a	NA, NO	NA, NO	NA, NO	NA, NO	0.00	0.05	0.20	0.32	0.42
HFC-152a	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO
HFC-143	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO
HFC-143a	NA, NO	NA, NO	NA, NO	NA, NO	0.00	0.00	0.01	0.02	0.02
HFC-227ea	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO
HFC-236fa	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO
HFC-245ca	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO
Unspecified mix of listed HFCsd - (kt CO <sub>2</sub> eq)	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	13.02	34.21	57.99	85.82
<b>Emissions of PFCsc - (kt CO<sub>2</sub> eq)</b>	3,950.13	3,953.32	3,946.93	2,842.79	1,855.82	1,312.56	1,209.29	1,053.04	1,423.75
CF <sub>4</sub>	0.51	0.51	0.51	0.37	0.24	0.17	0.16	0.14	0.19
C <sub>2</sub> F <sub>6</sub>	0.07	0.07	0.07	0.05	0.03	0.02	0.02	0.02	0.02
C <sub>3</sub> F <sub>8</sub>	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
C <sub>4</sub> F <sub>10</sub>	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
c-C <sub>4</sub> F <sub>8</sub>	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
C <sub>5</sub> F <sub>12</sub>	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
C <sub>6</sub> F <sub>14</sub>	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
Unspecified mix of listed PFCs(4) - (Gg CO <sub>2</sub> equivalent)	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
<b>Emissions of SF<sub>6</sub>(3) - (Gg CO<sub>2</sub> equivalent)</b>	221.20	239.99	258.77	277.53	296.28	316.89	282.66	260.46	234.09
SF <sub>6</sub>	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

Note: All footnotes for this table are given on sheet 3.

Table 1(d)

AUS\_BR1\_v1.0

**Emission trends (HFCs, PFCs and SF<sub>6</sub>)**

(Sheet 2 of 3)

CRF: AUS\_CRF\_\_ v1.1

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
	kt	kt	kt	kt	kt	kt	kt	kt	kt	kt
<b>Emissions of HFCsc - (kt CO<sub>2</sub> eq)</b>	1,149.91	1,357.04	1,936.04	2,446.77	2,977.97	3,527.51	4,097.70	4,504.62	5,067.91	5,693.22
HFC-23	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO
HFC-32	0.07	0.09	0.14	0.19	0.24	0.29	0.34	0.39	0.47	0.57
HFC-41	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO
HFC-43-10mee	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO
HFC-125	0.06	0.07	0.11	0.14	0.18	0.21	0.25	0.28	0.32	0.36
HFC-134	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO
HFC-134a	0.54	0.62	0.88	1.09	1.32	1.56	1.81	1.97	2.21	2.47
HFC-152a	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO
HFC-143	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO
HFC-143a	0.03	0.04	0.05	0.07	0.09	0.10	0.12	0.13	0.15	0.16
HFC-227ea	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO
HFC-236fa	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO
HFC-245ca	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO
Unspecified mix of listed HFCsd - (kt CO <sub>2</sub> eq)	118.89	158.54	200.58	244.05	288.74	335.00	381.35	431.03	442.46	475.91
<b>Emissions of PFCsc - (kt CO<sub>2</sub> eq)</b>	976.65	1,103.55	1,544.96	1,481.29	1,443.88	1,469.48	1,536.23	589.10	499.60	381.14
CF <sub>4</sub>	0.13	0.14	0.20	0.19	0.19	0.19	0.20	0.08	0.06	0.05
C <sub>2</sub> F <sub>6</sub>	0.02	0.02	0.03	0.03	0.02	0.02	0.03	0.01	0.01	0.01
C 3F8	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
C <sub>4</sub> F <sub>10</sub>	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
c-C <sub>4</sub> F <sub>8</sub>	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
C <sub>5</sub> F <sub>12</sub>	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
C <sub>6</sub> F <sub>14</sub>	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
Unspecified mix of listed PFCs(4) - (Gg CO <sub>2</sub> equivalent)	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
<b>Emissions of SF<sub>6</sub>(3) - (Gg CO<sub>2</sub> equivalent)</b>	205.53	199.85	206.02	212.25	216.24	217.78	190.85	180.84	170.04	158.40
SF <sub>6</sub>	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

Note: All footnotes for this table are given on sheet 3.

**Emission trends (HFCs, PFCs and SF<sub>6</sub>)**  
(Sheet 3 of 3)

CRF: AUS\_CRF\_\_ v1.1

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	2009	2010	2011	Change from base to latest reported year
	kt	kt	kt	%
<b>Emissions of HFCsc - (kt CO<sub>2</sub> eq)</b>	6,278.46	7,020.73	7,641.45	578.47
HFC-23	IE, NA, NO	IE, NA, NO	IE, NA, NO	-100.00
HFC-32	0.66	0.78	0.87	100.00
HFC-41	IE, NA, NO	IE, NA, NO	IE, NA, NO	0.00
HFC-43-10mee	IE, NA, NO	IE, NA, NO	IE, NA, NO	0.00
HFC-125	0.41	0.46	0.51	100.00
HFC-134	IE, NA, NO	IE, NA, NO	IE, NA, NO	0.00
HFC-134a	2.69	3.01	3.24	100.00
HFC-152a	IE, NA, NO	IE, NA, NO	IE, NA, NO	0.00
HFC-143	IE, NA, NO	IE, NA, NO	IE, NA, NO	0.00
HFC-143a	0.18	0.19	0.21	100.00
HFC-227ea	IE, NA, NO	IE, NA, NO	IE, NA, NO	0.00
HFC-236fa	IE, NA, NO	IE, NA, NO	IE, NA, NO	0.00
HFC-245ca	IE, NA, NO	IE, NA, NO	IE, NA, NO	0.00
Unspecified mix of listed HFCsd - (kt CO <sub>2</sub> eq)	527.06	581.32	622.10	100.00
<b>Emissions of PFCsc - (kt CO<sub>2</sub> eq)</b>	307.89	243.76	259.25	-93.44
CF <sub>4</sub>	0.04	0.03	0.03	-93.27
C <sub>2</sub> F <sub>6</sub>	0.00	0.00	0.00	-94.35
C 3F8	NA, NO	NA, NO	NA, NO	0.00
C <sub>4</sub> F <sub>10</sub>	NA, NO	NA, NO	NA, NO	0.00
c-C <sub>4</sub> F <sub>8</sub>	NA, NO	NA, NO	NA, NO	0.00
C <sub>5</sub> F <sub>12</sub>	NA, NO	NA, NO	NA, NO	0.00
C <sub>6</sub> F <sub>14</sub>	NA, NO	NA, NO	NA, NO	0.00
Unspecified mix of listed PFCs(4) - (Gg CO <sub>2</sub> equivalent)	NA, NO	NA, NO	NA, NO	0.00
<b>Emissions of SF<sub>6</sub>(3) - (Gg CO<sub>2</sub> equivalent)</b>	143.23	145.19	149.29	-32.51
SF <sub>6</sub>	0.01	0.01	0.01	-32.51

Abbreviations : CRF = common reporting format, LULUCF = land use, land-use change and forestry.

<sup>a</sup> The column "Base year" should be filled in only by those Parties with economies in transition that use a base year different from 1990 in accordance with the relevant decisions of the Conference of the Parties. For these Parties, this different base year is used to calculate the percentage change in the final column of this table.

<sup>c</sup>Enter actual emissions estimates. If only potential emissions estimates are available, these should be reported in this table and an indication for this be provided in the documentation box. Only in these rows are the emissions expressed as CO<sub>2</sub> equivalent emissions.

<sup>d</sup>In accordance with the "Guidelines for the preparation of national communications by Parties included in Annex I to the Convention, Part I: UNFCCC reporting guidelines on annual inventories", HFC and PFC emissions should be reported for each relevant chemical. However, if it is not possible to report values for each chemical (i.e. mixtures, confidential data, lack of disaggregation), this row could be used for reporting aggregate figures for HFCs and PFCs, respectively. Note that the unit used for this row is kt of CO<sub>2</sub> equivalent and that appropriate notation keys should be entered in the cells for the individual chemicals.)

**Custom Footnotes**

**Documentation Box:**

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Table 2(a)

AUS\_BR1\_v1.0

**Description of quantified economy-wide emission reduction target: base year<sup>a</sup>**

<i>Party</i>	<i>Australia</i>	
Base year /base period	2000	
Emission reduction target	% of base year/base period	% of 1990 <sup>b</sup>
	5.00%	4.00%
Period for reaching target	BY-2020	

<sup>a</sup> Reporting by a developed country Party on the information specified in the common tabular format does not prejudice the position of other Parties with regard to the treatment of units from market-based mechanisms under the Convention or other market-based mechanisms towards achievement of quantified economy-wide emission reduction targets.

<sup>b</sup> Optional.

**Description of quantified economy-wide emission reduction target: gases and sectors covered<sup>a</sup>**

<i>Gases covered</i>		<i>Base year for each gas (year):</i>
CO <sub>2</sub>		BY-2000
CH <sub>4</sub>		BY-2000
N <sub>2</sub> O		BY-2000
HFCs		BY-2000
PFCs		BY-2000
SF <sub>6</sub>		BY-2000
NF <sub>3</sub>		BY-2000
Other Gases (specify)		
Sectors covered <sup>b</sup>	Energy	Yes
	Transport <sup>f</sup>	Yes
	Industrial processes <sup>g</sup>	Yes
	Agriculture	Yes
	LULUCF	Yes
	Waste	Yes
	Other Sectors (specify)	

*Abbreviations* : LULUCF = land use, land-use change and forestry.

<sup>a</sup> Reporting by a developed country Party on the information specified in the common tabular format does not prejudice the position of other Parties with regard to the treatment of units from market-based mechanisms under the Convention or other market-based mechanisms towards achievement of quantified economy-wide emission reduction targets.

<sup>b</sup> More than one selection will be allowed. If Parties use sectors other than those indicated above, the explanation of how these sectors relate to the sectors defined by the IPCC should be provided.

<sup>f</sup> Transport is reported as a subsector of the energy sector.

<sup>g</sup> Industrial processes refer to the industrial processes and solvent and other product use sectors.

**Description of quantified economy-wide emission reduction target: global warming potential values (GWP)<sup>a</sup>**

<i>Gases</i>	<i>GWP values<sup>b</sup></i>
CO <sub>2</sub>	2nd AR
CH <sub>4</sub>	2nd AR
N <sub>2</sub> O	2nd AR
HFCs	2nd AR
PFCs	2nd AR
SF <sub>6</sub>	2nd AR
NF <sub>3</sub>	2nd AR
Other Gases (specify)	

*Abbreviations* : GWP = global warming potential

<sup>a</sup> Reporting by a developed country Party on the information specified in the common tabular format does not prejudice the position of other Parties with regard to the treatment of units from market-based mechanisms under the Convention or other market-based mechanisms towards achievement of quantified economy-wide emission reduction targets.

<sup>b</sup> Please specify the reference for the GWP: Second Assessment Report of the Intergovernmental Panel on Climate Change (IPCC) or the Fourth Assessment Report of the IPCC.

**Description of quantified economy-wide emission reduction target: approach to counting emissions and removals from the LULUCF sector<sup>a</sup>**

<b>Role of LULUCF</b>	LULUCF in base year level and target	Included
	Contribution of LULUCF is calculated using	Activity-based approach

*Abbreviation* : LULUCF = land use, land-use change and forestry.

<sup>a</sup> Reporting by a developed country Party on the information specified in the common tabular format does not prejudge the position of other Parties with regard to the treatment of units from market-based mechanisms under the Convention or other market-based mechanisms towards achievement of quantified economy-wide emission reduction targets.

**Description of quantified economy-wide emission reduction target: market-based mechanisms under the Convention<sup>a</sup>**

<i>Market-based mechanisms under the Convention</i>	<i>Possible scale of contributions (estimated kt CO<sub>2</sub> eq)</i>
CERs	
ERUs	
AAUs <sup>i</sup>	
Carry-over units <sup>j</sup>	
Other mechanism units under the Convention (specify) <sup>d</sup>	

*Abbreviations* : AAU = assigned amount unit, CER = certified emission reduction, ERU = emission reduction unit.

<sup>a</sup> Reporting by a developed country Party on the information specified in the common tabular format does not prejudice the position of other Parties with regard to the treatment of units from market-based mechanisms under the Convention or other market-based mechanisms towards achievement of quantified economy-wide emission reduction targets.

<sup>d</sup> As indicated in paragraph 5(e) of the guidelines contained in annex I of decision 2/CP.17 .

<sup>i</sup> AAUs issued to or purchased by a Party.

<sup>j</sup> Units carried over from the first to the second commitment periods of the Kyoto Protocol, as described in decision 13/CMP.1 and consistent with decision 1/CMP.8.

**Description of quantified economy-wide emission reduction target: other market-based mechanisms<sup>a</sup>**

<i>Other market-based mechanisms</i>	<i>Possible scale of contributions</i>
<i>(Specify)</i>	<i>(estimated kt CO<sub>2</sub> eq)</i>

<sup>a</sup> Reporting by a developed country Party on the information specified in the common tabular format does not prejudge the position of other Parties with regard to the treatment of units from market-based mechanisms under the Convention or other market-based mechanisms towards achievement of quantified economy-wide emission reduction targets.

**Description of quantified economy-wide emission reduction target: any other information<sup>a,b</sup>**

The Department of Industry, Innovation, Climate Change, Science Research and Tertiary Education (DIICCSRTE) releases official projections of Australia's greenhouse gas emissions annually. The latest release was in October 2012. Since the release of the 2012 Australia's Emissions Projections, at the 2012 Doha Climate Change Conference, Australia signalled its intention to join the Kyoto Protocol second commitment period, agreeing to limit average annual emissions over the eight year period from 2013 to 2020 to 99.5 per cent of the 1990 level. This is referred to as Australia's quantified emission limitation or reduction objective (QELRO). This commitment is consistent with Australia's existing unconditional pledge to reduce emissions to 5 per cent below 2000 levels by 2020. In May 2013, Australia also announced its decision to further broaden coverage of the land sector to include net emissions from cropland management, grazing land

<sup>a</sup> Reporting by a developed country Party on the information specified in the common tabular format does not prejudice the position of other Parties with regard to the treatment of units from market-based mechanisms under the Convention or other market-based mechanisms towards achievement of quantified economy-wide emission reduction targets.

<sup>b</sup> This information could include information on the domestic legal status of the target or the total assigned amount of emission units for the period for reaching a target. Some of this information is presented in the narrative part of the biennial report.

***Custom Footnotes***

Table 3

AUS\_BR1\_v1.0

## Progress in achievement of the quantified economy-wide emission reduction target: information on mitigation actions and their effects

Name of mitigation action <sup>a</sup>	Sector(s) affected <sup>b</sup>	GHG(s) affected	Objective and/or activity affected	Type of instrument <sup>c</sup>	Status of implementation <sup>d</sup>	Brief description <sup>e</sup>	Start year of implementation	Implementing entity or entities	Estimate of mitigation impact (not cumulative, in kt CO <sub>2</sub> eq)	
									2015	2020
Carbon Price*	Energy, Transport, Industry/industrial processes, Waste management/waste	CO <sub>2</sub> , CH <sub>4</sub> , PFCs, N <sub>2</sub> O	National Carbon Price including an Emissions Trading Scheme from 2015-16	Economic Regulatory Other (International)	Implemented		2012	Administered by the Clean Energy Regulator.	57,600.00	148,300.00
Carbon Farming Initiative*	Waste management/waste, Forestry/LULUCF, Agriculture	CH <sub>4</sub> , CO <sub>2</sub> , N <sub>2</sub> O	A baseline and credit scheme that allows farmers and landholders who take steps to reduce carbon pollution to generate carbon credits. Credits can be traded into the emissions trading scheme.	Other (Voluntary Agreement)	Implemented		2011	Australian Government with private participants	7,000.00	7,200.00
Queensland and new South Wales Land Clearing Legislation*	Forestry/LULUCF	CO <sub>2</sub>	The legislation reduces land-use change emissions from clearing of native vegetation in New South Wales and Queensland.	Regulatory	Implemented		1997	New South Wales and Queensland Government	19,600.00	18,400.00
Greenhouse Gas Abatement Scheme*	Energy, Industry/industrial processes, Forestry/LULUCF, Waste management/waste	CO <sub>2</sub>	Requires liable entities (electricity retailers and large electricity users who choose to participate) to meet mandatory annual targets for reducing or offsetting greenhouse gas emissions from the production of electricity that they supply or use.	Regulatory	Implemented		2003	New South Wales Government	1,000.00	1,000.00
Western Australia Smart Travel*	Transport	CO <sub>2</sub> , CH <sub>4</sub> , N <sub>2</sub> O	A program that provided communities, workplaces and the local government with the information, tools and resources needed to reduce their impact on the environment.	Voluntary Agreement	Implemented		1996	Western Australia Government	500.00	400.00



Table 3

AUS\_BR1\_v1.0

**Progress in achievement of the quantified economy-wide emission reduction target: information on mitigation actions and their effects**

Name of mitigation action <sup>a</sup>	Sector(s) affected <sup>b</sup>	GHG(s) affected	Objective and/or activity affected	Type of instrument <sup>c</sup>	Status of implementation <sup>d</sup>	Brief description <sup>e</sup>	Start year of implementation	Implementing entity or entities	Estimate of mitigation impact (not cumulative, in kt CO <sub>2</sub> eq)	
									2015	2020
Greenhouse Friendly*	Energy, Transport, Forestry/LULUCF, Waste management/waste <sup>e</sup>	CH <sub>4</sub> , CO <sub>2</sub> , N <sub>2</sub> O	Designed to help meet the challenge of climate change by certifying carbonneutral products and services and approving abatement credits for sale on the voluntary market.	Voluntary Agreement	Implemented		2001	Australian Government program with private industry participants.	400.00	300.00

*Note* : The two final columns specify the year identified by the Party for estimating impacts (based on the status of the measure and whether an ex post or ex ante estimation is available).

*Abbreviations* : GHG = greenhouse gas; LULUCF = land use, land-use change and forestry.

<sup>a</sup> Parties should use an asterisk (\*) to indicate that a mitigation action is included in the 'with measures' projection.

<sup>b</sup> To the extent possible, the following sectors should be used: energy, transport, industry/industrial processes, agriculture, forestry/LULUCF, waste management/waste, other sectors, cross-cutting, as appropriate.

<sup>c</sup> To the extent possible, the following types of instrument should be used: economic, fiscal, voluntary agreement, regulatory, information, education, research, other.

<sup>d</sup> To the extent possible, the following descriptive terms should be used to report on the status of implementation: implemented, adopted, planned.

<sup>e</sup> Additional information may be provided on the cost of the mitigation actions and the relevant timescale.

<sup>f</sup> Optional year or years deemed relevant by the Party.

**Custom Footnotes**

The estimates of mitigation impact provided in this table incorporate policies and measures in place at October 2012. These estimates do not include the Australian Government's decision to join the Kyoto Protocol second commitment period and the decision to broaden coverage of the land sector to include net emissions from cropland management, grazing land management and revegetation activities.

**Reporting on progress<sup>a, b</sup>**

<i>Year<sup>c</sup></i>	<i>Total emissions excluding LULUCF</i>	<i>Contribution from LULUCF<sup>d</sup></i>	<i>Quantity of units from market based mechanisms under the Convention</i>		<i>Quantity of units from other market based mechanisms</i>	
	<i>(kt CO<sub>2</sub> eq)</i>	<i>(kt CO<sub>2</sub> eq)</i>	<i>(number of units)</i>	<i>(kt CO<sub>2</sub> eq)</i>	<i>(number of units)</i>	<i>(kt CO<sub>2</sub> eq)</i>
(2000)						
2000	493,272.00	71,320.00				
2010	548,744.00	19,972.00				
2011	552,286.00	10,854.00	0.00	0.00		
2012			0.00	0.00		

*Abbreviation* : GHG = greenhouse gas, LULUCF = land use, land-use change and forestry.

<sup>a</sup> Reporting by a developed country Party on the information specified in the common tabular format does not prejudice the position of other Parties with regard to the treatment of units from market-based mechanisms under the Convention or other market-based mechanisms towards achievement of quantified economy-wide emission reduction targets.

<sup>b</sup> For the base year, information reported on the emission reduction target shall include the following: (a) total GHG emissions, excluding emissions and removals from the LULUCF sector; (b) emissions and/or removals from the LULUCF sector based on the accounting approach applied taking into consideration any relevant decisions of the Conference of the Parties and the activities and/or land that will be accounted for; (c) total GHG emissions, including emissions and removals from the LULUCF sector. For each reported year, information reported on progress made towards the emission reduction targets shall include, in addition to the information noted in paragraphs 9(a–c) of the UNFCCC biennial reporting guidelines for developed country Parties, information on the use of units from market-based mechanisms.

<sup>c</sup> Parties may add additional rows for years other than those specified below.

<sup>d</sup> Information in this column should be consistent with the information reported in table 4(a)I or 4(a)II, as appropriate. The Parties for which all relevant information on the LULUCF contribution is reported in table 1 of this common tabular format can refer to table 1.

**Custom Footnotes**

**Progress in achieving the quantified economy-wide emission reduction targets – further information on mitigation actions relevant to the contribution of the land use, land-use change and forestry sector in 2011<sup>a,b</sup>**

	<i>Net GHG emissions/removals from LULUCF categories<sup>c</sup></i>	<i>Base year/period or reference level value<sup>d</sup></i>	<i>Contribution from LULUCF for reported year</i>	<i>Cumulative contribution from LULUCF<sup>e</sup></i>	<i>Accounting approach<sup>f</sup></i>
	<i>(kt CO<sub>2</sub> eq)</i>				
Total LULUCF					Activity-based approach
A. Forest land					Activity-based approach
1. Forest land remaining forest land					Activity-based approach
2. Land converted to forest land					Activity-based approach
3. Other <sup>g</sup>					Activity-based approach
B. Cropland					Activity-based approach
1. Cropland remaining cropland					Activity-based approach
2. Land converted to cropland					Activity-based approach
3. Other <sup>g</sup>					Activity-based approach
C. Grassland					Activity-based approach
1. Grassland remaining grassland					Activity-based approach
2. Land converted to grassland					Activity-based approach
3. Other <sup>g</sup>					Activity-based approach
D. Wetlands					Activity-based approach
1. Wetland remaining wetland					Activity-based approach
2. Land converted to wetland					Activity-based approach
3. Other <sup>g</sup>					Activity-based approach
E. Settlements					Activity-based approach
1. Settlements remaining settlements					Activity-based approach
2. Land converted to settlements					Activity-based approach
3. Other <sup>g</sup>					Activity-based approach
F. Other land					Activity-based approach
1. Other land remaining other land					Activity-based approach
2. Land converted to other land					Activity-based approach
3. Other <sup>g</sup>					Activity-based approach
Harvested wood products					Activity-based approach

*Abbreviations* : GHG = greenhouse gas, LULUCF = land use, land-use change and forestry.

<sup>a</sup> Reporting by a developed country Party on the information specified in the common tabular format does not prejudice the position of other Parties with regard to the treatment of units from market-based mechanisms under the Convention or other market-based mechanisms towards achievement of quantified economy-wide emission reduction targets.

<sup>b</sup> Parties that use the LULUCF approach that is based on table 1 do not need to complete this table, but should indicate the approach in table 2. Parties should fill in a separate table for each year, namely 2011 and 2012, where 2014 is the reporting year.

<sup>c</sup> For each category, enter the net emissions or removals reported in the most recent inventory submission for the corresponding inventory year. If a category differs from that used for the reporting under the Convention or its Kyoto Protocol, explain in the biennial report how the value was derived.

<sup>d</sup> Enter one reference level or base year/period value for each category. Explain in the biennial report how these values have been calculated.

<sup>e</sup> If applicable to the accounting approach chosen. Explain in this biennial report to which years or period the cumulative contribution refers to.

<sup>f</sup> Label each accounting approach and indicate where additional information is provided within this biennial report explaining how it was implemented, including all relevant accounting parameters (i.e. natural disturbances, caps).

<sup>g</sup> Specify what was used for the category "other". Explain in this biennial report how each was defined and how it relates to the categories used for reporting under the Convention or its Kyoto Protocol.

**Custom Footnotes**

**Progress in achieving the quantified economy-wide emission reduction targets – further information on mitigation actions relevant to the contribution of the land use, land-use change and forestry sector in 2012<sup>a, b</sup>**

	<i>Net GHG emissions/removals from LULUCF categories<sup>c</sup></i>	<i>Base year/period or reference level value<sup>d</sup></i>	<i>Contribution from LULUCF for reported year</i>	<i>Cumulative contribution from LULUCF<sup>e</sup></i>	<i>Accounting approach<sup>f</sup></i>
	<i>(kt CO<sub>2</sub> eq)</i>				
Total LULUCF					Activity-based approach
A. Forest land					Activity-based approach
1. Forest land remaining forest land					Activity-based approach
2. Land converted to forest land					Activity-based approach
3. Other <sup>g</sup>					Activity-based approach
B. Cropland					Activity-based approach
1. Cropland remaining cropland					Activity-based approach
2. Land converted to cropland					Activity-based approach
3. Other <sup>g</sup>					Activity-based approach
C. Grassland					Activity-based approach
1. Grassland remaining grassland					Activity-based approach
2. Land converted to grassland					Activity-based approach
3. Other <sup>g</sup>					Activity-based approach
D. Wetlands					Activity-based approach
1. Wetland remaining wetland					Activity-based approach
2. Land converted to wetland					Activity-based approach
3. Other <sup>g</sup>					Activity-based approach
E. Settlements					Activity-based approach
1. Settlements remaining settlements					Activity-based approach
2. Land converted to settlements					Activity-based approach
3. Other <sup>g</sup>					Activity-based approach
F. Other land					Activity-based approach
1. Other land remaining other land					Activity-based approach
2. Land converted to other land					Activity-based approach
3. Other <sup>g</sup>					Activity-based approach
Harvested wood products					Activity-based approach

*Abbreviations*: GHG = greenhouse gas, LULUCF = land use, land-use change and forestry.

<sup>a</sup> Reporting by a developed country Party on the information specified in the common tabular format does not prejudice the position of other Parties with regard to the treatment of units from market-based mechanisms under the Convention or other market-based mechanisms towards achievement of quantified economy-wide emission reduction targets.

<sup>b</sup> Parties that use the LULUCF approach that is based on table 1 do not need to complete this table, but should indicate the approach in table 2. Parties should fill in a separate table for each year, namely 2011 and 2012, where 2014 is the reporting year.

<sup>c</sup> For each category, enter the net emissions or removals reported in the most recent inventory submission for the corresponding inventory year. If a category differs from that used for the reporting under the Convention or its Kyoto Protocol, explain in the biennial report how the value was derived.

<sup>d</sup> Enter one reference level or base year/period value for each category. Explain in the biennial report how these values have been calculated.

<sup>e</sup> If applicable to the accounting approach chosen. Explain in this biennial report to which years or period the cumulative contribution refers to.

<sup>f</sup> Label each accounting approach and indicate where additional information is provided within this biennial report explaining how it was implemented, including all relevant accounting parameters (i.e. natural disturbances, caps).

<sup>g</sup> Specify what was used for the category "other". Explain in this biennial report how each was defined and how it relates to the categories used for reporting under the Convention or its Kyoto Protocol.

**Custom Footnotes**

**Progress in achievement of the quantified economy-wide emission reduction targets – further information on mitigation actions relevant to the counting of emissions and removals from the land use, land-use change and forestry sector in relation to activities under Article 3, paragraphs 3 and 4, of the Kyoto Protocol<sup>a,b,c</sup>**

GREENHOUSE GAS SOURCE AND SINK ACTIVITIES	Base year <sup>d</sup>	Net emissions/removals <sup>e</sup>					Accounting parameters <sup>h</sup>	Accounting quantity <sup>i</sup>
		2008	2009	2010	2011	Total <sup>g</sup>		
(kt CO <sub>2</sub> eq)								
<b>A. Article 3.3 activities</b>								
A.1. Afforestation and Reforestation							-96'037.04	
A.1.1. Units of land not harvested since the beginning of the commitment periodj		-22,439.47	-21,559.26	-25,280.80	-26,719.67	-95,999.19	-95'999.19	
A.1.2. Units of land harvested since the beginning of the commitment periodj							-37.85	
A.2. Deforestation		56,621.08	48,692.03	45,267.63	37,603.97	188,184.72	188184.71656	
<b>B. Article 3.4 activities</b>								
B.1. Forest Management (if elected)		NA	NA	NA	NA	NA	NA	
3.3 offset <sup>k</sup>							92147.67469	
FM cap <sup>l</sup>							0	
B.2. Cropland Management (if elected)	0	NA	NA	NA	NA	NA	0	
B.3. Grazing Land Management (if elected)	0	NA	NA	NA	NA	NA	0	
B.4. Revegetation (if elected)	0	NA	NA	NA	NA	NA	0	

Note: 1 kt CO<sub>2</sub> eq equals 1 Gg CO<sub>2</sub> eq.

Abbreviations: CRF = common reporting format, LULUCF = land use, land-use change and forestry.

<sup>a</sup> Reporting by a developed country Party on the information specified in the common tabular format does not prejudice the position of other Parties with regard to the treatment of units from market-based mechanisms under the Convention or other market-based mechanisms towards achievement of quantified economy-wide emission reduction targets.

<sup>b</sup> Developed country Parties with a quantified economy-wide emission reduction target as communicated to the secretariat and contained in document FCCC/SB/2011/INF.1/Rev.1 or any update to that document, that are Parties to the Kyoto Protocol, may use table 4(a)II for reporting of accounting quantities if LULUCF is contributing to the attainment of that target.

<sup>c</sup> Parties can include references to the relevant parts of the national inventory report, where accounting methodologies regarding LULUCF are further described in the documentation box or in the

<sup>d</sup> Net emissions and removals in the Party's base year, as established by decision 9/CP.2.

<sup>e</sup> All values are reported in the information table on accounting for activities under Article 3, paragraphs 3 and 4, of the Kyoto Protocol, of the CRF for the relevant inventory year as reported in the current submission and are automatically entered in this table.

<sup>f</sup> Additional columns for relevant years should be added, if applicable.

<sup>g</sup> Cumulative net emissions and removals for all years of the commitment period reported in the current submission.

<sup>h</sup> The values in the cells "3.3 offset" and "Forest management cap" are absolute values.

<sup>i</sup> The accounting quantity is the total quantity of units to be added to or subtracted from a Party's assigned amount for a particular activity in accordance with the provisions of Article 7, paragraph 4, of the Kyoto Protocol.

<sup>j</sup> In accordance with paragraph 4 of the annex to decision 16/CMP.1, debits resulting from harvesting during the first commitment period following afforestation and reforestation since 1990 shall not be greater than the credits accounted for on that unit of land.

<sup>k</sup> In accordance with paragraph 10 of the annex to decision 16/CMP.1, for the first commitment period a Party included in Annex I that incurs a net source of emissions under the provisions of Article 3 paragraph 3, may account for anthropogenic greenhouse gas emissions by sources and removals by sinks in areas under forest management under Article 3, paragraph 4, up to a level that is equal to the net source of emissions under the provisions of Article 3, paragraph 3, but not greater than 9.0 megatonnes of carbon times five, if the total anthropogenic greenhouse gas emissions by sources and removals by sinks in the managed forest since 1990 is equal to, or larger than, the net source of emissions incurred under Article 3, paragraph 3.

<sup>l</sup> In accordance with paragraph 11 of the annex to decision 16/CMP.1, for the first commitment period of the Kyoto Protocol only, additions to and subtractions from the assigned amount of a Party resulting from Forest management under Article 3, paragraph 4, after the application of paragraph 10 of the annex to decision 16/CMP.1 and resulting from forest management project activities undertaken under Article 6, shall not exceed the value inscribed in the appendix of the annex to decision 16/CMP.1, times five.

**Custom Footnotes****Documentation Box:**

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**Reporting on progress<sup>a, b, c</sup>**

<i>Units of market based mechanisms</i>			<i>Year</i>	
			<i>2011</i>	<i>2012</i>
<i>Kyoto Protocol units<sup>d</sup></i>	<i>Kyoto Protocol units</i>	<i>(number of units)</i>	0.00	0.00
		<i>(kt CO<sub>2</sub> eq)</i>	0.00	0.00
	<i>AAUs</i>	<i>(number of units)</i>	0.00	0.00
		<i>(kt CO<sub>2</sub> eq)</i>	0.00	0.00
	<i>ERUs</i>	<i>(number of units)</i>	0.00	0.00
		<i>(kt CO<sub>2</sub> eq)</i>	0.00	0.00
	<i>CERs</i>	<i>(number of units)</i>	0.00	0.00
		<i>(kt CO<sub>2</sub> eq)</i>	0.00	0.00
	<i>tCERs</i>	<i>(number of units)</i>	0.00	0.00
		<i>(kt CO<sub>2</sub> eq)</i>	0.00	0.00
	<i>ICERs</i>	<i>(number of units)</i>	0.00	0.00
		<i>(kt CO<sub>2</sub> eq)</i>	0.00	0.00
<i>Other units<sup>d,e</sup></i>	<i>Units from market-based mechanisms under the Convention</i>	<i>(number of units)</i>		
		<i>(kt CO<sub>2</sub> eq)</i>		
	<i>Units from other market-based mechanisms</i>	<i>(number of units)</i>		
		<i>(kt CO<sub>2</sub> eq)</i>		
<i>Total</i>	<i>(number of units)</i>	0.00	0.00	
	<i>(kt CO<sub>2</sub> eq)</i>	0.00	0.00	

*Abbreviations* : AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, tCERs = temporary certified emission reductions.

Note: 2011 is the latest reporting year.

<sup>a</sup> Reporting by a developed country Party on the information specified in the common tabular format does not prejudice the position of other Parties with regard to the treatment of units from market-based mechanisms under the Convention or other market-based mechanisms towards achievement of quantified economy-wide emission reduction targets.

<sup>b</sup> For each reported year, information reported on progress made towards the emission reduction target shall include, in addition to the information noted in paragraphs 9(a-c) of the reporting guidelines, on the use of units from market-based mechanisms.

<sup>c</sup> Parties may include this information, as appropriate and if relevant to their target.

<sup>d</sup> Units surrendered by that Party for that year that have not been previously surrendered by that or any other Party.

<sup>e</sup> Additional rows for each market-based mechanism should be added, if applicable.

**Custom Footnotes**

Note- Australia understands surrender as distinct from holding. Surrender is when an entity or Party retires a unit for compliance purposes. No units have been surrendered as of the date of submission of this report.

Table 5

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**Summary of key variables and assumptions used in the projections analysis<sup>a</sup>**

<i>Key underlying assumptions</i>		<i>Historical<sup>b</sup></i>						<i>Projected</i>			
<i>Assumption</i>	<i>Unit</i>	<i>1990</i>	<i>1995</i>	<i>2000</i>	<i>2005</i>	<i>2010</i>	<i>2011</i>	<i>2015</i>	<i>2020</i>	<i>2025</i>	<i>2030</i>
<i>Population growth</i>	%			1.20	1.33	1.72	1.46	1.47	1.43	1.34	1.22
Population	millions			19.15	20.39	22.34	22.67	24.04	25.83	27.66	29.46
Real carbon price	2010 \$, AUD\$/t CO2-e							22.10	29.40	39.40	52.60
Gross domestic product- Level	2010 \$ billion					1,285.00	1,312.00	1,499.00	1,720.00	1,954.00	2,213.00
Real gross national income per person	2010 \$ '000					55.80	58.10	61.70	64.80	67.20	69.70
Real wage	index: 2010=100					100.00	106.70	114.30	120.20	124.80	127.50
Terms of trade	index: 2010=100	68.00	60.00	62.30	77.10	100.00	119.80	112.00	104.00	96.00	88.30
Emission intensity of electricity	t CO2-e/MWh						0.85	0.79	0.72	0.69	0.61
Average wholesale electricity prices	\$ per MWh						42.00	66.00	67.00	87.00	110.00
National Electricity Market (NEM) gas							4.80	5.00	6.00	7.50	9.20
Non-NEM gas prices							6.20	5.50	6.30	7.90	9.80
<i>Private per person consumption - level</i>	<i>'000 2010 AUD\$</i>					31.50	31.90	34.00	36.80	38.70	40.20

<sup>a</sup> Parties should include key underlying assumptions as appropriate.

<sup>b</sup> Parties should include historical data used to develop the greenhouse gas projections reported.

**Custom Footnotes**

These emissions projections (released in October 2012) rely on assumptions used by the Australian Treasury in their 2011 modelling exercise Strong Growth, Low Pollution: Modelling a Carbon Price.

Figures for the emissions intensity of electricity generation to three decimal points are provided in the version of Table 5 embedded within Australia's Biennial Report.

Table 6(a)

AUS\_BR1\_v1.0

Information on updated greenhouse gas projections under a 'with measures' scenario<sup>a</sup>

	GHG emissions and removals <sup>b</sup>							GHG emission projections	
	(kt CO <sub>2</sub> eq)							(kt CO <sub>2</sub> eq)	
	Base Year	1990	1995	2000	2005	2010	2011	2020	2030
<b>Sector<sup>d,e</sup></b>									
Energy	286,377.00	224,300.00	245,562.00	286,377.00	315,278.00	334,232.00	332,412.00	370,993.00	360,327.00
Transport	75,113.00	62,100.00	68,356.00	75,113.00	80,697.00	83,198.00	85,475.00	92,390.00	88,458.00
Industry/industrial processes	26,237.00	24,100.00	24,376.00	26,237.00	29,509.00	31,698.00	32,871.00	30,612.00	32,604.00
Agriculture	92,179.00	86,800.00	84,596.00	92,179.00	89,024.00	79,486.00	80,962.00	90,967.00	100,426.00
Forestry/LULUCF	35,375.00	100,639.00	31,115.00	35,375.00	44,670.00	15,794.00	16,906.00	18,763.00	NE
Waste management/waste	14,364.00	18,800.00	16,584.00	14,364.00	13,251.00	14,076.00	13,957.00	9,812.00	7,382.00
Other (specify)									
<b>Gas</b>									
CO <sub>2</sub> emissions including net CO <sub>2</sub> from LULUCF	379,210.00	361,747.00	330,153.00	379,210.00	419,611.00	414,946.00	416,083.00	452,767.00	NE
CO <sub>2</sub> emissions excluding net CO <sub>2</sub> from LULUCF	349,737.00	277,900.00	304,229.00	349,737.00	382,394.00	401,787.00	401,997.00	437,134.00	422,130.00
CH <sub>4</sub> emissions including CH <sub>4</sub> from LULUCF	120,072.00	126,391.00	115,836.00	120,072.00	118,403.00	112,450.00	114,724.00	125,351.00	NE
CH <sub>4</sub> emissions excluding CH <sub>4</sub> from LULUCF	115,928.00	114,600.00	112,191.00	115,928.00	113,170.00	110,600.00	112,743.00	123,153.00	129,414.00
N <sub>2</sub> O emissions including N <sub>2</sub> O from LULUCF	27,280.00	23,001.00	22,145.00	27,280.00	28,120.00	24,041.00	24,229.00	27,773.00	NE
N <sub>2</sub> O emissions excluding N <sub>2</sub> O from LULUCF	25,522.00	18,000.00	20,599.00	25,522.00	25,900.00	23,256.00	23,389.00	26,841.00	30,414.00
HFCs	1,976.00	1,100.00	1,143.00	1,976.00	4,758.00	6,804.00	7,302.00	7,461.00	7,133.00
PFCs	1,104.00	4,000.00	1,313.00	1,104.00	1,536.00	244.00	245.00	184.00	106.00
SF <sub>6</sub>	2.00	500.00		2.00					
Other (specify)									
CO <sub>2</sub>									
NF <sub>3</sub>									
N <sub>2</sub> O									
CH <sub>4</sub>									
PFCs									
HFCs									
SF <sub>6</sub>									
<b>Total with LULUCF<sup>f</sup></b>	529,644.00	516,739.00	470,590.00	529,644.00	572,428.00	558,485.00	562,583.00	613,536.00	7,239.00
<b>Total without LULUCF</b>	494,269.00	416,100.00	439,475.00	494,269.00	527,758.00	542,691.00	545,676.00	594,773.00	589,197.00

Abbreviations : GHG = greenhouse gas, LULUCF = land use, land-use change and forestry.



**Information on updated greenhouse gas projections under a ‘with measures’ scenario<sup>a</sup>**

	<i>GHG emissions and removals<sup>b</sup></i>							GHG emission projections	
	<i>(kt CO<sub>2</sub> eq)</i>							<i>(kt CO<sub>2</sub> eq)</i>	
	<i>Base Year</i>	1990	1995	2000	2005	2010	2011	2020	2030

<sup>a</sup> In accordance with the “Guidelines for the preparation of national communications by Parties included in Annex I to the Convention, Part II: UNFCCC reporting guidelines on national communications”, at a minimum Parties shall report a ‘with measures’ scenario, and may report ‘without measures’ and ‘with additional measures’ scenarios. If a Party chooses to report ‘without measures’ and/or ‘with additional measures’ scenarios they are to use tables 6(b) and/or 6(c), respectively. If a Party does not choose to report ‘without measures’ or ‘with additional measures’ scenarios then it should not include tables 6(b) or 6(c) in the biennial report.

<sup>b</sup> Emissions and removals reported in these columns should be as reported in the latest GHG inventory and consistent with the emissions and removals reported in the table on GHG emissions and trends provided in this biennial report. Where the sectoral breakdown differs from that reported in the GHG inventory Parties should explain in their biennial report how the inventory sectors relate to the sectors reported in this table.

<sup>c</sup> 20XX is the reporting due-date year (i.e. 2014 for the first biennial report).

<sup>d</sup> In accordance with paragraph 34 of the “Guidelines for the preparation of national communications by Parties included in Annex I to the Convention, Part II: UNFCCC reporting guidelines on national communications”, projections shall be presented on a sectoral basis, to the extent possible, using the same sectoral categories used in the policies and measures section. This table should follow, to the extent possible, the same sectoral categories as those listed in paragraph 17 of those guidelines, namely, to the extent appropriate, the following sectors should be considered: energy, transport, industry, agriculture, forestry and waste management.

<sup>e</sup> To the extent possible, the following sectors should be used: energy, transport, industry/industrial processes, agriculture, forestry/LULUCF, waste management/waste, other sectors (i.e. cross-cutting), as appropriate.

<sup>f</sup> Parties may choose to report total emissions with or without LULUCF, as appropriate.

**Custom Footnotes**

Government's decision to join the Kyoto Protocol second commitment period and the decision to broaden coverage of the land sector to include net emissions from cropland management, grazing land management and revegetation activities. These changes will be incorporated in the 2013 Australia's Emissions Projections and have not been incorporated into the emissions estimates in this table.

Table 7

AUS\_BR1\_v1.0

**Provision of public financial support: summary information in 2011<sup>a</sup>**

Allocation channels	Year									
	Australian dollar - AUD					USD <sup>b</sup>				
	Core/ general <sup>c</sup>	Climate-specific <sup>d</sup>				Core/ general <sup>c</sup>	Climate-specific <sup>d</sup>			
		Mitigation	Adaptation	Cross-cutting <sup>e</sup>	Other <sup>f</sup>		Mitigation	Adaptation	Cross-cutting <sup>e</sup>	Other <sup>f</sup>
<b>Total contributions through multilateral channels:</b>	341.35	59.93	2.45	0.87	0.91	346.78	60.88	2.49	0.88	0.92
Multilateral climate change funds <sup>g</sup>	23.75	59.93	2.45	0.00	0.91	24.13	60.88	2.49	0.00	0.92
Other multilateral climate change funds <sup>h</sup>	1.25	52.50	2.45	0.00	0.75	1.27	53.34	2.49	0.00	0.76
Multilateral financial institutions, including regional development banks	298.60				0.00	303.35				0.00
Specialized United Nations bodies	19.00			0.87	NA	19.30			0.88	NA
<b>Total contributions through bilateral, regional and other channels</b>		5.71	75.79	14.75			5.80	76.99	14.98	
<b>Total</b>	341.35	65.64	78.24	15.62	0.91	346.78	66.68	79.48	15.86	0.92

Abbreviation: USD = United States dollars.

<sup>a</sup> Parties should fill in a separate table for each year, namely 2011 and 2012, where 2014 is the reporting year.

<sup>b</sup> Parties should provide an explanation on methodology used for currency exchange for the information provided in table 7, 7(a) and 7(b) in the box below.

<sup>c</sup> This refers to support to multilateral institutions that Parties cannot specify as climate-specific.

<sup>d</sup> Parties should explain in their biennial reports how they define funds as being climate-specific.

<sup>e</sup> This refers to funding for activities which are cross-cutting across mitigation and adaptation.

<sup>f</sup> Please specify.

<sup>g</sup> Multilateral climate change funds listed in paragraph 17(a) of the "UNFCCC biennial reporting guidelines for developed country Parties" in decision 2/CP.17.

<sup>h</sup> Other multilateral climate change funds as referred in paragraph 17(b) of the "UNFCCC biennial reporting guidelines for developed country Parties" in decision 2/CP.17.

**Custom Footnotes**

Currency exchange for the information provided in table 7, 7(a) and 7(b) was based on annual average conversion rates as published by the Australian Taxation Office.

Please note that the Australian financial year is the period 1 July to 30 June the following year. Thus, the figures for 2011 are for the period 1 July 2010 - 30 June 2011. Figures for 2012 are for the period 1 July 2011 - 30 June 2012.

To the extent possible, these electronic tables reflect Australia's Biennial Report as attached to its Sixth National Communication. Where figures vary, this is due to the composition of totals and the operation of auto-generated tables. Definitive figures are contained in Australia's Biennial Report as attached to its Sixth National Communication.

Each Party shall provide an indication of what new and additional financial resources they have provided, and clarify how they have determined that such resources are new and additional. Please provide this information in relation to table 7(a) and table 7(b).

**Documentation Box:**

New and additional: funding is drawn from the growing aid program and does not divert funds from existing development priorities or programs.

Table 7

AUS\_BR1\_v1.0

**Provision of public financial support: summary information in 2012<sup>a</sup>**

Allocation channels	Year									
	Australian dollar - AUD					USD <sup>b</sup>				
	Core/ general <sup>c</sup>	Climate-specific <sup>d</sup>				Core/ general <sup>c</sup>	Climate-specific <sup>d</sup>			
		Mitigation	Adaptation	Cross-cutting <sup>e</sup>	Other <sup>f</sup>		Mitigation	Adaptation	Cross-cutting <sup>e</sup>	Other <sup>f</sup>
<b>Total contributions through multilateral channels:</b>	315.97	42.76	15.00	6.34	1.54	335.94	45.46	15.95	6.74	1.63
Multilateral climate change funds <sup>g</sup>	25.27	42.76	15.00	5.50	1.54	26.87	45.46	15.95	5.85	1.63
Other multilateral climate change funds <sup>h</sup>	2.67	35.30	0.00	5.00	0.93	2.84	37.53	0.00	5.32	0.98
Multilateral financial institutions, including regional development banks	266.20				0.00	283.02				0.00
Specialized United Nations bodies	24.50			0.84	NA	26.05			0.89	NA
<b>Total contributions through bilateral, regional and other channels</b>		34.60	93.57	10.47			36.80	99.47	11.14	
<b>Total</b>	315.97	77.36	108.57	16.81	1.54	335.94	82.26	115.42	17.88	1.63

Abbreviation: USD = United States dollars.

<sup>a</sup> Parties should fill in a separate table for each year, namely 2011 and 2012, where 2014 is the reporting year.

<sup>b</sup> Parties should provide an explanation on methodology used for currency exchange for the information provided in table 7, 7(a) and 7(b) in the box below.

<sup>c</sup> This refers to support to multilateral institutions that Parties cannot specify as climate-specific.

<sup>d</sup> Parties should explain in their biennial reports how they define funds as being climate-specific.

<sup>e</sup> This refers to funding for activities which are cross-cutting across mitigation and adaptation.

<sup>f</sup> Please specify.

<sup>g</sup> Multilateral climate change funds listed in paragraph 17(a) of the "UNFCCC biennial reporting guidelines for developed country Parties" in decision 2/CP.17.

<sup>h</sup> Other multilateral climate change funds as referred in paragraph 17(b) of the "UNFCCC biennial reporting guidelines for developed country Parties" in decision 2/CP.17.

**Custom Footnotes**

Currency exchange for the information provided in table 7, 7(a) and 7(b) was based on annual average conversion rates as published by the Australian Taxation Office.

Please note that the Australian financial year is the period 1 July to 30 June the following year. Thus, the figures for 2011 are for the period 1 July 2010 - 30 June 2011. Figures for 2012 are for the period 1 July 2011 - 30 June 2012.

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Each Party shall provide an indication of what new and additional financial resources they have provided, and clarify how they have determined that such resources are new and additional. Please provide this information in relation to table 7(a) and table 7(b).

**Documentation Box:**

New and additional: funding is drawn from the growing aid program and does not divert funds from existing development priorities or programs.

Provision of public financial support: contribution through multilateral channels in 2011<sup>a</sup>

Donor funding	Total amount				Status <sup>b</sup>	Funding source <sup>f</sup>	Financial instrument <sup>f</sup>	Type of support <sup>f, g</sup>	Sector <sup>c</sup>
	Core/general <sup>d</sup>		Climate-specific <sup>e</sup>						
	Australian dollar - AUD	USD	Australian dollar - AUD	USD					
Total contributions through multilateral channels	341.35	346.78	64.16	65.17					
Multilateral climate change funds <sup>g</sup>	23.75	24.13	63.29	64.29					
1. Global Environment Facility	22.50	22.86	7.43	7.54	Provided	ODA	Grant	Mitigation	Cross-cutting
2. Least Developed Countries Fund	0.00	0.00	0.00	0.00	Provided	ODA	Grant	Adaptation	Cross-cutting
3. Special Climate Change Fund	0.00	0.00	0.00	0.00	Provided				
4. Adaptation Fund	0.00	0.00	0.00	0.00	Provided				
5. Green Climate Fund	0.00	0.00	0.00	0.00	Provided	ODA	Grant	Cross-cutting	Cross-cutting
6. UNFCCC Trust Fund for Supplementary Activities	0.00	0.00	0.16	0.16	Provided	ODA	Grant	Other ()	Other (Not Applicable)
7. Other multilateral climate change funds	1.25	1.27	55.70	56.59					
Global Green Growth Institute	0.00	0.00	0.00	0.00	Provided	ODA	Grant	Cross-cutting	Cross-cutting
UNFCCC - Core	0.00	0.00	0.51	0.52	Provided	ODA	Grant	Other ()	Other (Not Applicable)
Kyoto Protocol	0.00	0.00	0.24	0.24	Provided	ODA	Grant	Other ()	Other (Not Applicable)
UNFCCC Trust Fund for Participation	0.00	0.00	0.00	0.00	Provided	ODA	Grant	Other ()	Other (Not Applicable)
Partnership for Market Readiness	0.00	0.00	0.00	0.00	Provided	ODA	Grant	Mitigation	Forestry
Forest Carbon Partnership Facility	0.00	0.00	0.00	0.00	Provided	ODA	Grant	Mitigation	Forestry
Energy Sector Management Assistance Program	1.25	1.27	0.75	0.76	Provided	ODA	Grant	Mitigation	Energy
Clean Investment Fund - Clean Technology Fund	0.00	0.00	25.00	25.40	Provided	ODA	Grant	Mitigation	Energy
Climate Investment Fund - Scaling-Up Renewable Energy Program	0.00	0.00	0.00	0.00	Provided	ODA	Grant	Mitigation	Energy
Climate Investment Fund - Pilot Program on Climate Resilience	0.00	0.00	2.45	2.49	Provided	ODA	Grant	Adaptation	Cross-cutting
Climate Investment Fund - Forest Investment Program	0.00	0.00	25.50	25.91	Provided	ODA	Grant	Mitigation	Forestry
Clean Energy Financing Partnership Facility	0.00	0.00	1.25	1.27	Provided	ODA	Grant	Mitigation	Energy
Multilateral financial institutions, including regional development banks	298.60	303.35	0.00	0.00					
1. World Bank	228.40	232.03	NA	NA	Provided	ODA	Grant		Other (Not Applicable)
2. International Finance Corporation	0.00	0.00	0.00	0.00	Provided				
3. African Development Bank	0.00	0.00	0.00	0.00	Provided				
4. Asian Development Bank	70.20	71.32	NA	NA	Provided	ODA	Grant	Other ()	Other (Not Applicable)
5. European Bank for Reconstruction and Development	0.00	0.00	0.00	0.00	Provided				
6. Inter-American Development Bank	0.00	0.00	0.00	0.00	Provided				
7. Other									
Specialized United Nations bodies	19.00	19.30	0.87	0.88					
1. United Nations Development Programme	17.90	18.18	NA	NA					
United Nations Development Programme	17.90	18.18	NA	NA	Provided	ODA	Grant	Other ()	Other (Not Applicable)
2. United Nations Environment Programme	1.10	1.12	NA	NA					
United Nations Environment Programme	1.10	1.12	NA	NA	Provided	ODA	Grant	Other ()	Other (Not Applicable)
3. Other	0.00	0.00	0.87	0.88					
Inter-Governmental Panel on Climate Change	0.00	0.00	0.87	0.88	Provided	ODA	Grant	Cross-cutting	Cross-cutting

Abbreviations: ODA = official development assistance, OOF = other official flows.

<sup>a</sup> Parties should fill in a separate table for each year, namely 2011 and 2012, where 2014 is the reporting year.

<sup>b</sup> Parties should explain, in their biennial reports, the methodologies used to specify the funds as provided, committed and/or pledged. Parties will provide the information for as many status categories as appropriate in the following order of priority: provided, committed, pledged.

<sup>c</sup> Parties may select several applicable sectors. Parties may report sectoral distribution, as applicable, under "Other".

<sup>d</sup> This refers to support to multilateral institutions that Parties cannot specify as climate-specific.

<sup>e</sup> Parties should explain in their biennial reports how they define funds as being climate-specific.

<sup>f</sup> Please specify.

<sup>g</sup> Cross-cutting type of support refers to funding for activities which are cross-cutting across mitigation and adaptation.

## Custom Footnotes

AUD and USD are in millions of dollars.

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Table 7(a)

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Provision of public financial support: contribution through multilateral channels in 2012<sup>a</sup>

Donor funding	Total amount				Status <sup>b</sup>	Funding source <sup>f</sup>	Financial instrument <sup>f</sup>	Type of support <sup>f, g</sup>	Sector <sup>c</sup>
	Core/general <sup>d</sup>		Climate-specific <sup>e</sup>						
	Australian dollar - AUD	USD	Australian dollar - AUD	USD					
Total contributions through multilateral channels	315.97	335.94	65.64	69.78					
Multilateral climate change funds <sup>g</sup>	25.27	26.87	64.80	68.89					
1. Global Environment Facility	22.60	24.03	7.46	7.93	Provided	ODA	Grant	Mitigation	Cross-cutting
2. Least Developed Countries Fund	0.00	0.00	15.00	15.95	Provided	ODA	Grant	Adaptation	Cross-cutting
3. Special Climate Change Fund	0.00	0.00	0.00	0.00	Provided				
4. Adaptation Fund	0.00	0.00	0.00	0.00	Provided				
5. Green Climate Fund	0.00	0.00	0.50	0.53	Provided	ODA	Grant	Cross-cutting	Cross-cutting
6. UNFCCC Trust Fund for Supplementary Activities	0.00	0.00	0.61	0.65	Provided	ODA	Grant	Other ()	Other (Not Applicable)
7. Other multilateral climate change funds	2.67	2.84	41.23	43.83					
Global Green Growth Institute	0.00	0.00	5.00	5.32	Provided	ODA	Grant	Cross-cutting	Cross-cutting
UNFCCC - Core	0.00	0.00	0.71	0.75	Provided	ODA	Grant	Other ()	Other (Not Applicable)
Kyoto Protocol	0.00	0.00	0.22	0.23	Provided	ODA	Grant	Other ()	Other (Not Applicable)
UNFCCC Trust Fund for Participation	0.00	0.00	0.00	0.00	Provided	ODA	Grant	Other ()	Other (Not Applicable)
Partnership for Market Readiness	0.00	0.00	10.00	10.63	Provided	ODA	Grant	Mitigation	Forestry
Forest Carbon Partnership Facility	0.00	0.00	11.93	12.68	Provided	ODA	Grant	Mitigation	Forestry
Energy Sector Management Assistance Program	2.67	2.84	1.60	1.70	Provided	ODA	Grant	Mitigation	Energy
Clean Investment Fund - Clean Technology Fund	0.00	0.00	0.00	0.00	Provided	ODA	Grant	Mitigation	Energy
Climate Investment Fund - Scaling-Up Renewable Energy Program	0.00	0.00	9.10	9.68	Provided	ODA	Grant	Mitigation	Energy
Climate Investment Fund - Pilot Program on Climate Resilience	0.00	0.00	0.00	0.00	Provided	ODA	Grant	Adaptation	Cross-cutting
Climate Investment Fund - Forest Investment Program	0.00	0.00	0.00	0.00	Provided	ODA	Grant	Mitigation	Forestry
Clean Energy Financing Partnership Facility	0.00	0.00	2.67	2.84	Provided	ODA	Grant	Mitigation	Energy
Multilateral financial institutions, including regional development banks	266.20	283.02	0.00	0.00					
1. World Bank	185.30	197.01	NA	NA	Provided	ODA	Grant	Other ()	Other (Not Applicable)
2. International Finance Corporation	0.00	0.00	0.00	0.00	Provided				
3. African Development Bank	0.00	0.00	0.00	0.00	Provided				
4. Asian Development Bank	80.90	86.01	0.00	0.00	Provided	ODA	Grant	Other ()	Other (Not Applicable)
5. European Bank for Reconstruction and Development	0.00	0.00	0.00	0.00	Provided				
6. Inter-American Development Bank	0.00	0.00	0.00	0.00	Provided				
7. Other									
Specialized United Nations bodies	24.50	26.05	0.84	0.89					
1. United Nations Development Programme	23.30	24.77	NA	NA					
United Nations Development Programme	23.30	24.77	NA	NA	Provided	ODA	Grant	Other ()	Other (Not Applicable)
2. United Nations Environment Programme	1.20	1.28	NA	NA					
United Nations Environment Programme	1.20	1.28	NA	NA	Provided	ODA	Grant	Other ()	Other (Not Applicable)
3. Other	0.00	0.00	0.84	0.89					
Inter-Governmental Panel on Climate Change	0.00	0.00	0.84	0.89	Provided	ODA	Grant	Cross-cutting	Cross-cutting

Abbreviations: ODA = official development assistance, OOF = other official flows.

<sup>a</sup> Parties should fill in a separate table for each year, namely 2011 and 2012, where 2014 is the reporting year.

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<sup>c</sup> Parties may select several applicable sectors. Parties may report sectoral distribution, as applicable, under "Other".

<sup>d</sup> This refers to support to multilateral institutions that Parties cannot specify as climate-specific.

<sup>e</sup> Parties should explain in their biennial reports how they define funds as being climate-specific.

<sup>f</sup> Please specify.

<sup>g</sup> Cross-cutting type of support refers to funding for activities which are cross-cutting across mitigation and adaptation.

## Custom Footnotes

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The USD exchange rate used in table 7(a) is based on annual average conversion rates as published by the Australian Tax Office.

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Table 7(b)

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**Provision of public financial support: contribution through bilateral, regional and other channels in 2011<sup>a</sup>**

<i>Recipient country/ region/project/programme<sup>b</sup></i>	<i>Total amount</i>		<i>Status<sup>c</sup></i>	<i>Funding source<sup>g</sup></i>	<i>Financial instrument<sup>g</sup></i>	<i>Type of support<sup>g, h</sup></i>	<i>Sector<sup>d</sup></i>	<i>Additional information<sup>e</sup></i>
	<i>Climate-specific<sup>f</sup></i>							
	<i>Australian dollar -</i>	<i>USD</i>						
Total contributions through bilateral, regional and other channels	96.25	97.77						
/ Asia Pacific Regional	2.40	2.44	Provided	ODA	Grant	Mitigation	Forestry	
/ Fiji	0.72	0.73	Provided	ODA	Grant	Adaptation	Cross-cutting	
/ FSM, Palau, RMI	0.83	0.84	Provided	ODA	Grant	Adaptation	Cross-cutting	
/ Kiribati	4.96	5.03	Provided	ODA	Grant	Adaptation	Cross-cutting	
/ Nauru	0.50	0.51	Provided	ODA	Grant	Adaptation	Water and sanitation	
/ Niue & Tokelau	1.00	1.02	Provided	ODA	Grant	Adaptation	Other (Infrastructure)	
/ PNG	1.81	1.84	Provided	ODA	Grant	Mitigation	Cross-cutting	
/ Samoa	0.69	0.70	Provided	ODA	Grant	Adaptation	Agriculture	
/ Solomon Islands	3.99	4.05	Provided	ODA	Grant	Adaptation	Transport	
/ Tonga	2.01	2.04	Provided	ODA	Grant	Adaptation	Cross-cutting	
/ Tuvalu	1.00	1.02	Provided	ODA	Grant	Adaptation	Cross-cutting	
/ Cook Islands	0.50	0.51	Provided	ODA	Grant	Adaptation	Cross-cutting	
/ East Asia Regional	4.36	4.43	Provided	ODA	Grant	Adaptation	Cross-cutting	
/ Timor Leste	0.48	0.49	Provided	ODA	Grant	Adaptation	Cross-cutting	
/ Indonesia	10.75	10.92	Provided	ODA	Grant	Cross-cutting	Cross-cutting	
/ Laos PDR	4.00	4.06	Provided	ODA	Grant	Cross-cutting	Energy	
/ South Asia Regional	4.00	4.06	Provided	ODA	Grant	Adaptation	Water and sanitation	
/ Bangladesh	1.00	1.02	Provided	ODA	Grant	Adaptation	Cross-cutting	
/ Sri Lanka	0.17	0.17	Provided	ODA	Grant	Adaptation	Cross-cutting	
/ Caribbean and other SIDS	10.00	10.16	Provided	ODA	Grant	Adaptation	Cross-cutting	
/ Global Unspecified	1.50	1.52	Provided	ODA	Grant	Mitigation	Forestry	
/ Pacific Regional	39.58	40.21	Provided	ODA	Grant	Adaptation	Cross-cutting	

**Provision of public financial support: contribution through bilateral, regional and other channels in 2011<sup>a</sup>**

Recipient country/ region/project/programme <sup>b</sup>	Total amount		Status <sup>c</sup>	Funding source <sup>g</sup>	Financial instrument <sup>g</sup>	Type of support <sup>g, h</sup>	Sector <sup>d</sup>	Additional information <sup>e</sup>
	Climate-specific <sup>f</sup>							
	Australian dollar -	USD						

*Abbreviations:* ODA = official development assistance, OOF = other official flows; USD = United States dollars.

<sup>a</sup> Parties should fill in a separate table for each year, namely 2011 and 2012, where 2014 is the reporting year.

<sup>b</sup> Parties should report, to the extent possible, on details contained in this table.

<sup>c</sup> Parties should explain, in their biennial reports, the methodologies used to specify the funds as provided, committed and/or pledged. Parties will provide the information for as many status categories as appropriate in the following order of priority: provided, committed, pledged.

<sup>d</sup> Parties may select several applicable sectors. Parties may report sectoral distribution, as applicable, under "Other".

<sup>e</sup> Parties should report, as appropriate, on project details and the implementing agency.

<sup>f</sup> Parties should explain in their biennial reports how they define funds as being climate-specific.

<sup>g</sup> Please specify.

<sup>h</sup> Cross-cutting type of support refers to funding for activities which are cross-cutting across mitigation and adaptation.

**Custom Footnotes**

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Table 7(b)

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**Provision of public financial support: contribution through bilateral, regional and other channels in 2012<sup>a</sup>**

<i>Recipient country/ region/project/programme<sup>b</sup></i>	<i>Total amount</i>		<i>Status<sup>c</sup></i>	<i>Funding source<sup>g</sup></i>	<i>Financial instrument<sup>g</sup></i>	<i>Type of support<sup>g, h</sup></i>	<i>Sector<sup>d</sup></i>	<i>Additional information<sup>e</sup></i>
	<i>Climate-specific<sup>f</sup></i>							
	<i>Australian dollar -</i>	<i>USD</i>						
Total contributions through bilateral, regional and other channels	138.64	147.41						
/ FSM, Palau, RMI	1.40	1.49	Provided	ODA	Grant	Adaptation	Cross-cutting	
/ Kiribati	2.85	3.03	Provided	ODA	Grant	Adaptation	Water and sanitation	
/ Nauru	0.50	0.53	Provided	ODA	Grant	Adaptation	Water and sanitation	
/ Niue & Tokelau	0.42	0.45	Provided	ODA	Grant	Adaptation	Other (Infrastructure)	
/ PNG	1.73	1.85	Provided	ODA	Grant	Mitigation	Cross-cutting	
/ Samoa	1.70	1.80	Provided	ODA	Grant	Adaptation	Cross-cutting	
/ Solomon Islands	1.99	2.12	Provided	ODA	Grant	Adaptation	Transport	
/ Tuvalu	0.80	0.85	Provided	ODA	Grant	Adaptation	Water and sanitation	
/ Vanuatu	1.00	1.06	Provided	ODA	Grant	Adaptation	Transport	
/ East Asia Regional	9.80	10.42	Provided	ODA	Grant	Adaptation	Cross-cutting	
/ Timor Leste	1.40	1.49	Provided	ODA	Grant	Adaptation	Cross-cutting	
/ Indonesia	4.47	4.76	Provided	ODA	Grant	Cross-cutting	Cross-cutting	
/ Vietnam	17.10	18.18	Provided	ODA	Grant	Adaptation	Cross-cutting	
/ Philippines	0.27	0.28	Provided	ODA	Grant	Adaptation	Cross-cutting	
/ Laos PDR	1.00	1.06	Provided	ODA	Grant	Cross-cutting	Energy	
/ South Asia Regional	7.38	7.85	Provided	ODA	Grant	Adaptation	Water and sanitation	
/ Bangladesh	7.00	7.44	Provided	ODA	Grant	Adaptation	Cross-cutting	
/ Maldives	0.50	0.53	Provided	ODA	Grant	Adaptation	Cross-cutting	
/ Caribbean and other SIDS	5.20	5.53	Provided	ODA	Grant	Adaptation	Cross-cutting	
/ East Africa Regional	2.60	2.76	Provided	ODA	Grant	Adaptation	Agriculture	
/ Southern Africa Regional	5.00	5.32	Provided	ODA	Grant	Cross-cutting	Cross-cutting	
/ West Africa Regional	2.90	3.08	Provided	ODA	Grant	Adaptation	Agriculture	
/ Global Unspecified	32.87	34.95	Provided	ODA	Grant	Mitigation	Cross-cutting	
/ Pacific Regional	28.76	30.58	Provided	ODA	Grant	Adaptation	Cross-cutting	



**Provision of public financial support: contribution through bilateral, regional and other channels in 2012<sup>a</sup>**

Recipient country/ region/project/programme <sup>b</sup>	Total amount		Status <sup>c</sup>	Funding source <sup>g</sup>	Financial instrument <sup>g</sup>	Type of support <sup>g, h</sup>	Sector <sup>d</sup>	Additional information <sup>e</sup>
	Climate-specific <sup>f</sup>							
	Australian dollar -	USD						

*Abbreviations:* ODA = official development assistance, OOF = other official flows; USD = United States dollars.

<sup>a</sup> Parties should fill in a separate table for each year, namely 2011 and 2012, where 2014 is the reporting year.

<sup>b</sup> Parties should report, to the extent possible, on details contained in this table.

<sup>c</sup> Parties should explain, in their biennial reports, the methodologies used to specify the funds as provided, committed and/or pledged. Parties will provide the information for as many status categories as appropriate in the following order of priority: provided, committed, pledged.

<sup>d</sup> Parties may select several applicable sectors. Parties may report sectoral distribution, as applicable, under "Other".

<sup>e</sup> Parties should report, as appropriate, on project details and the implementing agency.

<sup>f</sup> Parties should explain in their biennial reports how they define funds as being climate-specific.

<sup>g</sup> Please specify.

<sup>h</sup> Cross-cutting type of support refers to funding for activities which are cross-cutting across mitigation and adaptation.

**Custom Footnotes**

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Table 8

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**Provision of technology development and transfer support<sup>a,b</sup>**

<i>Recipient country and/or region</i>	<i>Targeted area</i>	<i>Measures and activities related to technology transfer</i>	<i>Sector<sup>c</sup></i>	<i>Source of the funding for technology transfer</i>	<i>Activities undertaken by</i>	<i>Status</i>	<i>Additional information<sup>d</sup></i>
Non-Annex 1 countries	Mitigation	Throughout the reporting period Australia has been a member of the IEA's Climate Technology Initiative. Member countries undertake a broad range of cooperative activities in partnership with developing and transition countries and other international bodies to accelerate development and diffusion of climate-friendly and environmentally sound technologies and practices. Australia supports the initiative's role in creating enabling environments, which includes addressing market barriers to private sector investment and deployment of technology. Activities are designed to be consistent with the UNFCCC technology transfer objectives.	Energy, Other (Clean Energy)	Private and Public	Private and Public	Implemented	
Focus on non-Annex 1 Clean Energy Ministerial (CEM) members	Mitigation	Since 2012, the Clean Energy Ministerial Carbon Capture, Use and Storage (CCUS) Action Group has focused on three work streams aimed at analysing the financial and commercial risks of CCS demonstration, identifying and enabling support for CCS in developing countries, and supporting CCS in industrial applications.	Energy	Public	Private and Public	Implemented	

Table 8

**Provision of technology development and transfer support<sup>a,b</sup>**

<i>Recipient country and/or region</i>	<i>Targeted area</i>	<i>Measures and activities related to technology transfer</i>	<i>Sector<sup>c</sup></i>	<i>Source of the funding for technology transfer</i>	<i>Activities undertaken by</i>	<i>Status</i>	<i>Additional information<sup>d</sup></i>
China	Mitigation	Under the Australia-China Joint Coordination Group on Clean Coal Technology (JCG), Australia works closely with China's National Energy Administration on a range of collaborative activities, including, the provision of AUD12 million to support a feasibility study for a post-combustion capture (PCC) project; six collaborative research projects, completed in 2012; the establishment of the Australia-China JCG Partnership Fund to support joint research seminars, workshops and researcher exchanges; the establishment of a Post Combustion Capture (PCC) Technology Advancement project, to help advance PCC technology under the flue gas conditions prevalent in Chinese coal fired power stations; and the China- Australia Geological Storage of CO2 Project, which aims to promote capacity building, training opportunities, and the sharing of expertise on the geological storage of CO2.	Energy	Public	Private and Public	Implemented	
Non-Annex 1 countries	Mitigation	Over the reporting period Australia contributed significant resources to the Global Carbon Capture and Storage Institute. The Institute's capacity development activities focus on developing countries, helping to build an 'enabling environment' for CCS by addressing barriers and building in-country expertise, in recognition that 70 per cent of CCS deployment will need to occur in non-OECD countries to achieve global emission reduction targets.	Energy	Public	Private and Public	Implemented	

**Provision of technology development and transfer support<sup>a,b</sup>**

<i>Recipient country and/or region</i>	<i>Targeted area</i>	<i>Measures and activities related to technology transfer</i>	<i>Sector<sup>c</sup></i>	<i>Source of the funding for technology transfer</i>	<i>Activities undertaken by</i>	<i>Status</i>	<i>Additional information<sup>d</sup></i>
Non-Annex 1 countries	Mitigation	Australia is an active member of the Global Methane Initiative (GMI) which encourages the recovery and use of methane by focusing on the five main methane emission sources: agriculture, coal mines, municipal solid waste, oil and gas systems, and wastewater. GMI projects are accelerating the deployment of methane emission-reducing technologies and practices, stimulating economic growth and energy security in partner countries, especially those with high energy growth forecasts and those helping to build capacity in the area of methane abatement.	Energy, Agriculture	Private and Public	Private and Public	Implemented	
Non-Annex 1 countries	Mitigation	Australia is supporting the work of the International Renewable Energy Agency (IRENA) by contributing to its Global Renewable Energy Atlas and Renewable Energy Roadmap, as well as contributing a range of other products and resources which IRENA is formulating to assist developing countries to develop their own renewable energy resources and industries.	Other (Renewable Energy)	Public	Private and Public	Implemented	
Non-Annex 1 countries	Mitigation	Australia funds the renewable energy components of the Clean Energy Solutions Centre (CESC). This is an online portal of clean energy policy information and tools, including, remote expert assistance, online training and peer-to-peer learning.	Energy, Other (Renewable Energy), Other (Energy Efficiency), Other (Clean Transport), Other (Energy Access), Other (Infrastructure)	Public	Private and Public	Implemented	

<sup>a</sup> To be reported to the extent possible.

<sup>b</sup> The tables should include measures and activities since the last national communication or biennial report.

<sup>c</sup> Parties may report sectoral disaggregation, as appropriate.

<sup>d</sup> Additional information may include, for example, funding for technology development and transfer provided, a short description of the measure or activity and co-financing arrangements.

**Custom Footnotes**

**Provision of capacity-building support<sup>a</sup>**

<i>Recipient country/region</i>	<i>Targeted area</i>	<i>Programme or project title</i>	<i>Description of programme or project<sup>b,c</sup></i>
Indonesia	Mitigation	The Indonesia-Australia Forest Carbon Partnership (IAFCP)	Commencing in 2008, the IAFCP builds on long-term practical cooperation between Australia and Indonesia on REDD+ to support strategic policy dialogue on climate change, the development of Indonesia's National Carbon Accounting System; and the implementation of an incentive-based REDD+ demonstration activity in Central Kalimantan.
Various REDD+ partner countries	Mitigation	Forest Carbon Partnership Facility (FCPF)	Through the IFCI, Australia supports the Forest Carbon Partnership Facility (FCPF), which is a global partnership of governments, businesses, civil society, and indigenous peoples established to provide financial and technical assistance to countries seeking to build their capacity to effectively implement REDD+.
Vietnam, Timor-Leste, the Philippines, Papua New Guinea, Solomon Islands, Vanuatu, Kiribati, Republic of Marshall Islands, Tonga, and Fiji	Adaptation	Climate Change Action Grants scheme	Australia's Community-based Climate Change Action Grants scheme is a new program supporting non-government organisations to work with local communities to build their capacity and resilience to climate change, focussing on disaster risk reduction, food and water security, agricultural productivity and ecosystem-based adaptation.
Pacific	Adaptation	Pacific Australia Climate Change Science and Adaptation Planning (PACCSAP) Program	Through the Pacific Australia Climate Change Science and Adaptation Planning (PACCSAP) Program, Australia is supporting new country-specific research in the Pacific on climate change. Work has also begun on helping Pacific countries apply climate change projections to planning adaptation measures.
Asia Pacific	Adaptation	Research for Development Alliance	The CSIRO-AusAID Research for Development Alliance aims to tackle important development challenges in the Asia-Pacific through improved knowledge of climate, water and energy systems. The Alliance builds partner capacity to inform development decisions, which will improve both resilience and environmental management.
Developing country partners	Mitigation	Low Emissions Capacity Building Programme (LECB)	Australia is supporting 25 countries through the LECB to strengthen their institutional and technical capacity to plan and undertake mitigation actions, through the formulation of Low-Emission Development Strategies (LEDS) and Nationally Appropriate Mitigation Actions (NAMAs). The programme is also assisting countries to establish the national greenhouse gas inventory and MRV systems required to underpin mitigation actions.
Vietnam	Adaptation	Vietnam Climate Change and Coastal Ecosystems Program	Australia has partnered with Germany and the Government of Vietnam to help communities in the Kien Giang province to adapt to climate change and improve the management of coastal environments.
Developing country partners	Mitigation	The World Bank Partnership for Market Readiness (PMR)	Australia has contributed \$12.5 million (including FY 2012/13) to the PMR, shared its expertise in developing and implementing its national emissions trading scheme and domestic offset mechanism (the Carbon Farming Initiative) and hosted a PMR Partnership Assembly.
Various REDD+ partner countries, including Indonesia, Papua New Guinea (with the United Nations Food and Agricultural Organisation), Vietnam, and Fiji.	Mitigation	The International Forest Carbon Initiative (IFCI)	The \$273 million International Forest Carbon Initiative (IFCI) is Australia's key contribution to global action on reducing emissions from deforestation and forest degradation in developing countries (REDD+). The IFCI is helping developing countries to build capacity to participate in a future REDD+ mechanism, and to support the inclusion of REDD+ in the 2020 new agreement that will be applicable to all countries.  The IFCI is composed of several activities, including a research partnership in Indonesia, which is delivering policy and technical research on REDD+; the Asia Pacific Forestry Skills and Capacity Building Program, which is helping to improve forest governance, law enforcement and regulatory frameworks; and the Energising Development partnership, which is developing sustainable markets for improved cooking technologies in developing countries.

**Provision of capacity-building support<sup>a</sup>**

<i>Recipient country/region</i>	<i>Targeted area</i>	<i>Programme or project title</i>	<i>Description of programme or project<sup>b,c</sup></i>
Pacific	Adaptation	Climate and Oceans Support Program	Australia's Climate and Oceans Support Program in the Pacific is supporting Pacific meteorological services to use climate science to support planning in various sectors, including agriculture, water security and health.
Pacific	Adaptation	Pacific Adaptation Strategy Assistance Program (PASAP)	The PASAP produced regional climate change research to provide country specific climate projections in the region and has been well received by Pacific countries, their development partners, and the international community.
Various REDD+ partner countries	Mitigation	Forest Investment Program (FIP)	The Forest Investment Program (FIP) utilises grants and near-zero interest credits to complement large-scale investments and leverage additional resources for REDD+, including through the private sector.
Pacific nations, including, Cook Islands, Federated States of Micronesia, Fiji, Marshall Islands, Nauru, Niue, Palau, Papua New Guinea, Samoa, Solomon Islands, Tonga, Tuvalu, and Vanuatu	Adaptation	Pacific Adaptation to Climate Change Project	The United Nations Development Program's Pacific Adaptation to Climate Change project helps build the capacity of participating countries to adapt to climate change in the food security, water and coastal management sectors.

<sup>a</sup> To be reported to the extent possible.

<sup>b</sup> Each Party included in Annex II to the Convention shall provide information, to the extent possible, on how it has provided capacity-building support that responds to the existing and emerging capacity-building needs identified by Parties not included in Annex I to the Convention in the areas of mitigation, adaptation and technology development and transfer.

<sup>c</sup> Additional information may be provided on, for example, the measure or activity and co-financing arrangements.

**Custom Footnotes**